## E.N.I.G.M.A.

Europeam Numbers Information Gathering and Monitoring
Association

## FOR YOUR GYES ONLIK



* PLEASE NOTE OUR NEW ADDRESS *

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ENIGMA NEWSLETTER
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ENIGMA is the journal of the European Numbers Information Gathering and Monitoring Association.

ENIGMA is a non-profit making association of Iisteners who monitor and gather information on 'Number stations' and other related radio transmissions. ENIGMA aims to bring together - listeners and enthusiasts and provide quality information on subjects not normally available from main-stream publications.


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## Contributions

We appreciate all contributions to the newsletter (including anonymous information), We regret that we are not always able to provide a personal reply but, rest assured, we read and collate all information for present and future use. Questions are answered via our "Letter to ENIGMA" pages. ENIGMA is also a discussion forum and we welcome comments about the newsletter. If you are interested in writing a feature please contact us at the mailing address.

## Acknowledgements

Information in ENIGMA may be reproduced, but please mention ENIGMA and if possible the originator of the article, we would appreciate any cuttings in which ENIGMA is mentioned.

NEXT ISSUE... The next issue of ENIGMA will be published in LATE - MARCH 1996.

Contribution would be appreciated by SATURDAY FEBRUARY 3 rd 1996.

Thank You.

Cover issue 9
This issue's cover shows a recruitment advertisment for the C.I.A., if you have any others - please send them in !

## Station News and Latest Listening

AKH TTHES ARE UTC (GHT).
BHGLISH LANGUAGB STATTOHS

## F1) READ READP

Transmissions continue to schedule, all reports appreciated. transeissions repeat on tro requencies at 20 minute intervals.

| MON WIE 2/4 | 20.00 4740 | 04 | HOM | W8 |  | $\begin{aligned} & 21.304740 \\ & 21.504460 \\ & 22.104270 \end{aligned}$ |  | 323232 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 20.203410 | 04 |  |  |  |  |  |  |
|  | 20.403910 | 04 |  |  |  |  |  |  |
| TUB WT $1 / 2$ | 19.004710 | 06 |  |  |  |  |  |  |
| 3 | 19.203910 | 06 |  |  |  |  |  |  |
|  | 18.403410 | 06 |  |  |  |  |  |  |
| WED WE 1/3 | 19.004740 | 84 | CHD | We | 1/2 | 23.00 |  | 13 |
|  | 19.203810 | 84 |  |  | 4 | 23.20 | 4740 | 13 |
|  | 19.40 3110 | 84 |  |  |  | 23.40 | 4460 | 13 |

## 133) LITHCOLASHIRR POACHER

Still active between 10.00 : 22.00 transimitting for 45 minutes each hour on 3 simulcast frequencies. The sehedule seoms to have changed around early September. Prequency use seens more diverse and several old frequencies have been re-activated and nem ones also introduced. The early transmissions between 10.00 高 14.00 are no longer confined to the regular $1448715652 \% 16018$ ontiets.

Jaming seems to have reduced, this may be due to the fact that Iran is under siege from clandestine stations and places a higher priority on blocking those. Recent reports suggest that Iran is jamming some 11 stations on Sy, some with new double jamers which attack the incoming sigmal from both sides of the broadcast frequency.
Active LP frequencies at present are ; 1647516084156821448713375 126031154510426925184647755733769596800648557465422.

Sowe frequencies have only wery occasional use, for further details please see letter pages.

## E4) CHERRY PICKER

LP's distant relative, still active but does not seem to appear every day, although some waekend logs have been reported. Mould monitors outside Europe please listen $\mathbb{Z}^{(1)}$ report sigmal strength, particularly. in the Far Bast.

| 11.00 | 14469 | 17499 |
| :--- | :--- | :--- |
| 12.00 | 17499 |  |
| 13.00 | 14469 | 17499 |
| 20474 |  |  |

$$
3
$$

## 

Activity lavels ars wery himh, we have have oniy included logn frow the 1 ast 3 wonths in order to sive an accurate picture.

| Dajig | 19.00 | $5153 / 7473$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HOM | 18.000 | 697068183 | FHV | 14.00 | 1222\% |
| HON | 18.00 | 9219// 11891 | THEV | 17.00 | 135444/111072 |
| MOW | 21.00 | 5371 | 3F9\% | 13.00 | 11491/ 131550 |
| HON | 23.00 | 7532 GERMAN | \% ${ }^{\text {FRPV }}$ | 19.000 | 8219 21481 |
|  |  |  | THY | 21.00 | $5371 / 87430$ |
| 2\% | 01.00 | 5048 | THIV | 21.007 | $8185 / 10162$ |
| TVE | 13.00 | 10529/8014 |  |  |  |
| TVW | 14.00 | 12221 | FRI | 02.00 | 4470/ 5046 |
| TUE | 15.00 | 8005/1 10247 | RRI | 07.00 | $6813 / 18070$ |
| THS | 17.00 | 6780// 8085 | FRI | 15.00 | $8005 / 11024 \%$ |
| TUF | 18.00 | 11491//13450 | HRT | 18.00 | $21.191 / 113850$ |
| TUES | 22.00 | $9358 / / 11072$ | FRT | 2\%.00 | 6970 |
| KED | 16.00 | 9070 | SAT | 07.00 | 90707/ 11072 |
| WED | 17.00 | 6780// 8085 | SAT | 18.00 | 18273/18820 |
| WHD | 18.00 | $6970 / 68143$ |  |  |  |
| WID | 18.00 | 11431//13450 | SUHE | 18.00 | 7469812221 |
| WHD | 21.00 | 8185// 10162 | SWN |  | $11072 / 113140$ |

H6 ( 57 ) BRTLISH MAN ENDS $00000 \% 000000$
Please see our feature on the "Russian Man fariy" iEn this issue. further details are sifen sbout the possibility of an extumaded schedule for these trunsmissions.

## E9) MAGAETIC FIRLDS

Transmissions frow this station are becoming more erxatic. nt the tion
 (changed from 10.00) althoukh some weeks the message is mot bromdcast and on others. it starts up as late 2s 19.15.

We have had several reports of this station mixint with aroadcast programee. The min seems to be of Middle Eistern orisin, possibly the Voice of Mojahed - cilandestine broadcaster. Station 39 also has a Hiddle Fustern language numbers (?) formet see station V8.

Monday 19.00 vaciable on 6645 - subject to dxift.
Messages in Bnglish are addressed to $44 B$ or 410 (it is difficult to be certain.

E10) PHONGTIC $\triangle L P H A B E T$ - MATO (EZI etc.)
This wast network continues changes have included some CIO. Please see Simon Mason transmissions in SSB, particularly froin and our book reviev page, looking at Mossad operations.

Katost anll－signs raportad mra Ilatad balow．

| 2120 | RPA | 2270 | JSR | 2515 | APA | 2628 | 1PTT | 2743 | ULI | 2953 | SYN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3150 | PCD | 3270 | KPA | 3417 | $\Delta R T$ | 3640 | VLB | 3840 | YHIF |  |  |
| 4165 | SㅍTT | 4270 | PCD | 1360 | MIW | 4463 | FTJ | 4560 | STN | 4665 | VLS 8 |
| 4880 | ULE |  |  |  |  |  |  |  |  |  |  |
| 5091 | JSR | 5170 | CIO | 5230 | SHN | 5339 | OFAM | 5437 | $A R T$ | ． 5629 | SPA |
| 5715 | $2{ }^{\text {WHo}}$ | 5820 | YH5 |  |  |  |  |  |  |  |  |
| 6270 | Whe | 6370 | FLeB | 6500 | PCD | 6635 | CIO | 6657 | MIM | 6745 | CIO |
| 6840 | E2I | 6811 | OEM |  |  |  |  |  |  |  |  |
| 7115 | $\triangle R^{\prime}$ | 7322 | FTJ | 7445 | EPA | 7540 | JSR | 7607 | VLB | 7918 | THE |
| 8025 | CIO | 8127 | CIO | 8464 | MI戠 | 8641 | MIW |  |  |  |  |
| 9130 | ESI | 9402 | HHE |  |  |  |  |  |  |  |  |
| 10125 | CLO | 10352 | VLB | 10680 | YHF | 10820 | THE | 10970 | HI匋 |  |  |
| 11565 | ELI |  |  |  |  |  |  |  |  |  |  |
| 12747 | CIO | 12950 | RPA |  |  |  |  |  |  |  |  |
| 13533 | B6I | 13921 | MI年 |  |  |  |  |  |  |  |  |
| 14000 | S2N | 14530 | SPA | 14750 | MI第 |  |  |  |  |  |  |
| 15980 | RZI |  |  |  |  |  |  |  |  |  |  |
| 17121 | VL．${ }^{\text {B }}$ | 17170 | gPA | 17410 | REI | 17466 | WL3 |  |  |  |  |
| 19715 | BEI |  |  |  |  |  |  |  |  |  |  |

B11）＂OBLIOUR＂
This station is one which likes to stay hidden and chenges freguency often．At present it can be heard with call 291 at the followine cizes．

```
1st & 3rd TMUR& 04.30 6905
lsi % 30 FRI 20.30 4700 (may change to 3050)
```

Freguencies vary dependine on tine of sear．The 20.30 transeission woves betreen 306040154780 and 5050 ．

登12）N N

| HON | Hot found | Repeated | 21.00 | 4644 | Hould reuders please |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| WED | OH．00 | 5072 | Repeated | 21.00 | 4644 | re－confiruthis |
| THU | 04.00 | 5821 | Repeated | 20.00 | 5821. | schedule． |
| FRI | $0 A .00$ | 4573 | Repeated | 21.00 | 4644 |  |

Please send in ：ll reports of $N N W$ ．

E14） $4 F$ COUNT CONTROL＂
Active and operatins to followints schedules．
$00.30 \quad 5153$
06.30 7343／／11072／／13455
$13.30 \quad 11072 / / 13484 / / 15985$
$17.307343 / / 11072 / 613465$

Some transeissions may not be daily．

F15) PHONETC AHPHABKT - DE NATO (NSA \#HO.)
Reception of this station is very wariable, reader in Finland report very poor reception, the signal seems to improve in Southern Europe and is Fery strong around Greece and the Near Xast.

Dethiled belon are latest schedules.

| 11.00 | 18000 | BEC | 17.00 | 14000 | FSP |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 12.00 | 17502 | HSU | 17.30 | 5835 | HSA |
| 12.30 | 11170 | NSA | 18.00 | 5835 | USP |
| 13.00 | 11000 | BEC | 19.00 | 4130 | SAR |
| 11.00 | 11000 | FYP | 20.00 | 5530 | HAS |
| 16.30 | 6715 | NAS | 21.00 | 4130 | HSA |

## E16) THO LETTKR (BHGLISH)

Please see Simon Mason Hintes for latest Two letter schedule.
An interesting incident occurrad on Wednesday 16th August. The callsign Alpha-Uniforiw mas sent on two frequencies - messases follomed in Binglish at 30 minute intervals throushout the evenins.

| S821//4888 Alpha-Uniform | 2ine | Call-sign | Growp Coust |
| :--- | :--- | :--- | :--- |
| Hhese have not been | 19.00 | 702 | 124 |
| herra since | 19.30 | 509 | 107 |
|  | 20.30 | 355 | 117 |
|  | 20.30 | 192 | 105 |
|  | 21.00 | 942 | 109 |

H17) GNGLISH LaDY 00000 BNDING (274 etc.)
This station likes to use a randoa schedule, but does have one regular transaisision.

| Randon logs include | Wed | 17.30 | 7625 | Calling ??? |
| ---: | :--- | ---: | ---: | ---: |
|  | Thur | 19.00 | 12210 | Calling 561 |
|  | Thure | 20.00 | 10230 | Calling 531 |
|  | Sat | 20.55 | 4741 | Calling 124 |

Regular transmission- Hed 08.00 9270-9291 wariable Calling 274, this is now heard each week with wessagess. (Not heard ist Nor.)
On Wednesday August 30th a strange incident occurred. Expactinet the Bngliah Lady calling "27P" I tunce in as usuel at 08.00. To my surpinse I hemrd a Russian Male voice frow station Sb, the call wiens was "Dra Syel Chetirye" or 274. A messade followed in Russian. Perhaps this was the result of some wix up at the station?

Another maknom station was also monitored on Saturday S Sunday June 3rd and 4th. It has not been heard since, but had the same format endines in 00000.
I heard the Fhmlish sperbins lady (her voice wis very sinilar to the regular station but not qutite the sume, pronuncintion mas more
"Kinglish" in mid rlow on 9345 KHz at 20.10. She ended with the decade key 258 and Erowp count 30 , no 00000 ending was sent at this point.
I remained thmed and to ny suspeise after a 30 second brenk a Male voice appeared in Enginsh calling 169. The decode key wrs 750 and the Eroup count 25, he ended with 00000.
The following evening I heard the Lady on 9315 gevin at 20.00 with ca.ll 275 decode key 124 and an 80 sxoup message ending 00000. I have not heard either voice since.

## GRaHAM LANGUAGE STATIONS

GE) SWEDISH RHAPSODY
This station also seems to be moving towards more transmissions in SSB. The music box just does not sound right ! We have attempted to put together schedule, but, must stress this is far from complete. Swedish Rhapsody operates on a basis that WR 1 starts on the first Saturday regardless of date.


Active frequencies are $38254185 \quad 4779$ 4832 534057486200818818488 please send in all reports. Other frequencies nay also active.
(Message groups are not indicated).

## GA) THREE MOTE ODDITY

We are still following up information on the location of this station and will be publishing further details in issue 10. Keeping tracie of 3 Mote Oddity is very difficult, the schedule and frequency ahaneses do not help. Detailed below are all the reports we have received in the last few months.
 of transmission. Frequencies change each new eonth.

| DAY | UTC | JWNE | JULY | AVG | SERPT | OCT | HOV | $D E C$ | JAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TVE | 19.00 | 4773 | 4360 | 4208 |  |  |  |  |  |
| THU | 19.00 | 4773 | 4360 | 4208 |  |  |  |  |  |
| FRI | 04.05 | 6875 | 6378 |  |  |  |  |  |  |
| FRI | 16.00 |  |  |  | 7625 |  |  |  |  |
| FRI | 17.00 |  |  |  | 5575 |  |  |  |  |
| PRI | 19.40 | 5256 |  | 5178 | 4410 |  |  |  |  |
| SAT | 19.00 | 4773 | 1360 | 4208 |  |  |  |  |  |
| SAT | $\begin{aligned} & 20.10 \\ & 21.10 \end{aligned}$ | 7481 | 6853 | 6642 | 5817 | 5323 | 4276 | 3840 | 4627 |
| SUE | 04.10 | 5.166 | 5166 |  |  |  |  |  |  |
|  | 05.10 |  |  |  | 4063 |  |  |  |  |
|  | 12.10 | 7568 | 7481 | 7736 | 8752 |  |  |  |  |
|  | 20.10 | 5281 | 5422 | 5233 | 4485 | 3871 | 3352 | 3268 |  |
|  | 20.35 | 5181 | 5320 | 5135 | 4385 |  |  |  |  |
|  | 21.35 21.10 | 6547 | 5718 | 5617 |  |  |  |  | 1126 |
|  | 23. 10 |  |  |  | 5487 | 4827 | 4138 | 3815 |  |

Frequencios shown for Mow Dec Jan are projectad frow 1984 logs.

## GS) COUNTIMG STATION

Sicon Mrson informs ze that most of cs - Cournting Stations have mavad to the niddle of the misht/early mornings. This station mas very active durine the Cold war years, but seems to be firirly quict at present. The station iss the German languase version of the faniliar Countine station 25 which is very active.

German language MOE 23.00 7532

GG) GRTRHAN LADY 00000 EHDING
This station and G7 (German Lady 000000 ending) are aften ixixed up when logesed, the easy may to tell the apart is :
GG-GKOUPS ARS ALHAYS PAIRED - JNDS 00000
GY-GROUPS ARE MLWAYS SINGLE - KNDS O00 OOD KHDE
GG usem regular time slots but random frequencies. In winter try:-
MON 19.00 recent id's include 035324 \& 810 , remaber tho groups HON 20.00 mee almys paired and the station ends 00000.
SAT 20.15
Other id"s noted in the past are $122 \quad 235569625628$, Thiss station IIkes to stay hidden and so logs art as amays appreciated.

G7) GRRMAN LADY 000000 BNDING
Hessuges are sent in Single Groups, uses 3 or 4 figure decode key. Fiach transinission is repeated on 2 further frequencies. Alull iessmes are repeated only once.

Regular messages inciude:

| TUR | 06. 30 | 7378 | 8178 | 9278 | Call 278 | (Off aix How-Harch) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| THU | 06. 30 | 7978 | 8178 | 9278 | Call 278 | (Off air Mow-March) |
| THU | 19.00 | 1.9570 | 12210 | 8126 | Call 723 |  |
| FRI | 18.00 | 9127 | 7627 | 10227 | Call 167 |  |
| FRTI | 20.00 | 5127 |  |  | Cal1 771 |  |
| SAT | 09.00 | 13527 | 11127 | 9427 | Call 621 |  |

We have number of logs of G6 : G7 which we cannot positively identify, so please check for double or single groups mhen reporting, thanks.

## G11) STRICH

Like its Knglish slavic relations the Geraan language transuissions are also rather shy! Regular transmissions can, however, be heard as folloms.

| 2nat ${ }^{\text {a }}$ | HED | 06.00 | 65 |  | 7580 | Call | 486 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TUIS | 21.00 | 1015 | or | 3820 | Call | 752 |
| W17REXY | FED | 08.30 | 7841 |  |  | Call | 75 |

Prequencies wary depending on time of year. The 21.00
transixission woyes betmeen 3820101547805050.

## G16) GERAM THO LITYRR STATIOHS

All transwissions start on the hour or hale-hour. An electronic tune Fnd two letter spoken identification is sent for 5 minutes. For extaple "Charlie Delta" or "Cole min".

Simon Hason sends us the latest operating schedules which appear in his feature later in this issue.

Tro Letter stations are much less active than in recent years and are now rarely heard in the evenings.

Fell frequency listar follow please report call signs and id's heard.
269027072745322832624543459448214888501551825732577067656853 $740475327661 \quad 77527858 \quad 80638173190401832519450$

| 10170 | 10560 | 10500 | 10710 | 11617 | 11108 | 115158 | 12092 | 12210 | 12314 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 13752 | 13775 | 13890 | 14622 | 14945 | 15610 | 16055 | 16220 | 16114 | 17130 |
| 10575 | 10995 | 10755 | 100105 |  |  |  |  |  |  |

$18575192951975520240 \quad 20350 \quad 20675122885$
Simon tells me that regivar traffic is mos sent during the day on the hisher frequencies. Germany no longer needs to conaunicate mith acents in the Corser DDR and kistern Furope and most op the call signs mhich were hesurd daily until the early 1990 's hare left the air, as a result nost of the low frequencies are now no longer in use.

## SLAVIC STATIORS

## S2) DRUMS ERUMPITS

This station is still operating on its gth of each month schedule, rosardless of day. It diu not appear on August gth which fell on a Hednesday. The result was the use of the frequency by its sister stition Ready Ready!

```
Monthyy gth of each month regardless of day
    20.30 4740
```

S6 ST) RUSSIAN HAN 00000 \& 000000 RNDIRG
Please sec peature for latest update and reaular schodules.

## S8) $P T P T I T$

The Monday and Hodnesday transwission at 19.00 on 4124 ended on July 1st, but pay re-activato mithont marnins ( this does happen with this particular stationj. See H27 in HORSE SECTIOR.

It was also actipre on Mondays at 06.30 on fis but this has not been roted since Septerber. Please report if beard, thanks.

## S13 SIA) RUSSIAN COUNTIMG MRA

S13) Russian connting and announcements of 2 sinutes duration. The last time I notad this (which is wery hard to find) was on Thursday at 20.00 on 3824.

Sis) Russian counting and announcements Iong duration. This wis active on 4328 but moved recently to 4040 , this can bo heard fromearly afternoon onmard with a continuous loop snnouncenent. reception improves with the dere path.

## S11) PRRSEMA" S12) "CHETEA"

Like the BnElish Gernan Ianguage relations these tro station also like to teep lo profile, but 512 "Chetta" has browen mith tradition and sent several messuetes since our last edition.
At the time of writins I have no reports of the "Preska" broadcasts and two sitings of the "Chotta" variant. It should be noted that the Endilish, Gerwan \& Preska/Chetta set up do not send vory often, iosit transulssion me either weekly, Cortnimhthy or monthly and 90\% of thea isst for only 5 ninutes per transwission.
"Chetta" 15t 3rd whD of Month 21.00 1015 Call 871
"Chettren Ist MON of Month 21.00 4163 call 755
The call 971 does send nessaxes, these are sent in double stoups rith the repeat in single reoups.
The language cannot be positively identified and two or the numers are so close ms to sound almost the same.

The mumbers aournd like the fallowing words.
Adínka, Droika, TFoika, Tchityorka, Pityorka, Shest, Syik, Fósia, Dyeyit, Hoil.
Cherita - line (stroke) (yepta)
? Feonya - ??
Vrainanij - Attention (BnumaHne)
Hanjet - Eind ( Sound barely audible)

Tho numbers are spoken guickIy and run into each othor, two words Tchitwork a Petjork are so close in sound that only trained ear or native speafer would be able to tell ther apart! This mould probably result in alocoding nishtarare.

Hy thanks to Risto in Finland for his help with these mords. Convents would be welcome.

## S16) OLX OLX OLX

Att the tive aff goind to press the schedule remained unchanged from issuc 8, but changes would see. likely to take account of minter conditions.

| DAILI | 00.00 | to | 04.00 | 5301 | 8142 | 12275 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 05.00 | to | 08.00 | 8142 | 9320 | 12275 | the hour and last rbout |
|  | 08.00 | to | 18.00 | 8142 | 149977 | 18303 |  |
|  | 17.00 | to | 20.00 | 5301 | 8320 | 12275 |  |
|  | 21.00 | to | 22.00 | 5301 | 8142 | 12275 |  |

In previous issues we have reported the address of this station (the orIy numbers station in the morid to QSL) which is care of the Ministry of the Interiow. This seews stranke for $2 n$ operation which scinds messeges out of the country ! Homever, recent inforimeton received coneirns the reasons behind this purticular oddity.

The followine was received by rurcha " The Czech foreiten intelligence serwice actusidy is the Pixst Section of the Intelligence Directorate of the ininistry of the Interior. But Czech eitizens and Vestern authorities alike comonis refer to it ms state sicret Security. Statni Tajna Beqpecnost, or the STM

S17) CRBCH LADY "CONTHOL" - sinkle 51 nessare.
Again no chances to this station.
DATL. 13.55 to 14.02 $4885 / 15027$

## s18/1B) CZECH MAN

Very difficult to find random transmissions on odd frequencies, sounds like a rough "gravel" voiced male announcer.

Only one report - heard on September 5 th at 22.00 on 4010 , ended with Konec- then off air. Any reports appreciated.

One interesting note we can make - all the logs over a protracted period seen to be around the end of the month or the first week of a new month, coinciderce perhaps ?

S21) RUSSIAN LADY

Recent reports are as follows.

| MON | 18.45 | 5290 | Call 491 |
| :--- | :--- | :--- | :--- | :--- |
| TUE | 17.40 | 5740 | Call 342 |
| THU | 17.40 | 5740 | Call 342 |
| THU | 19.45 | 5290 | Cal1 491 |
| SAT | 08.15 | 5075 | Call 205 |

The station likes to start at odd times and so we suess that more transmissions are eround as yet undiscovered.
"For D", Re- 6507 kHz , the signsl is a channel naxker transuitted by the British Royal Naval Coastal Control. It is one of several; this is channel $E$.

Thank you for your logs. Where possible, please include ENIGMA reference numbers for asse of identification.

```
GR27 - 25941 27388 33126 88804 26588 87333 64648 85811 88120 52658
    73883 31126 11881 72626 68941 29433 28688 81268 89881 17388
    33287 39488 88283 39484 11338 83326 89332 00000
```



## OTHRR LAHGUAGES

SPANISH
『2) SPANISH LADY - TWO FIHALS
We have somewhat neglected Spamish transmissions, but, hope to receive more reports. It would seen that some of the transmissions are from areas other the North \& South America. It is important to catch the end of the transmission to identify the stations correctly.
V2 - Spanish Lady - 2 finels (occasionally 3 finals) is quite active and is usually around in the mornings daily. Recent logs include.

| TUS | 08.00 | $9260 *$ | FRI | 05.004050 |
| :--- | :--- | :--- | :--- | :--- |
| TUK | 08.00 | $7530 *$ | FRI | 07.00 .7887 |
| HED | 03.00 | 6825 | SUN | 05.007725 |
| WIED | 04.00 | 7860 | SUN | 06.306758 |
| WRD | 07.00 | 6787 | SUN | 07.005115 |
|  |  |  | SUN | 08.008186 |

* simultaneously, 9260

फith deeper roice, but same format.

THH $07.00 \quad 5115$
THU 08.00 6825
T6) SPANISEI LADY 00000 ELDTVE

Still around on friday \& Saturday evenings, strone signal, sends in double sroups endins 00000 - likes randor firequencies.

Aot very active, uses ramdon times and frequencies.
F7) SPANISH hAN 000000 RNDING
This is another of those random stations and like the above, follons the $H G B G R V$ style of operation, random rrequencies and repeat transmissions. Hessases are sent in sincle croups ending 000000.

Recent logs have included:

| MON |  | 06.00 | 13540 | Cal1 033 |
| :---: | :---: | :---: | :---: | :---: |
| H0N | THIU | 06.00 | 7495 | Call 273 |
| HON | THU |  | 8110 | Call 273 |
| H20] |  | 13.00 | 12220 | Call 105 |

Please send in all logs for Spanish speaking stations with as anch detail us possible. Inclucies Call - Decode Key - Double or Single Groups and Bndines, plus of course HM/ON. Thanlis.
78) BASTERN MUSIC STATION (1angave kinidentificd).

Hhus station is z relation of RG the Magnetic Fields Knglish Innauage operation. We still need a positive identification of tho language used by this జitation.

Trmaseissions ware tirst noted operating on tha lst Saturday of erch month, but in July the station appeared on July bth (the second Saturday) Like Magnetic Pields it is rather erratic in its behaviour !

I mould try the following days and times but surgest you take a flexible approzch.

| FRI | 08.20 | 11290 | These are a guide line, transeissions |
| :--- | :--- | ---: | ---: |
| SAT | 08.20 | 11290 | may start Iate or not st all. |
| SAT | 18.00 | 6645 |  |

11280 transmissions qere moted on the second week of the month, while 6645 should be the H irst Saturday off the month.

* Te had one report onIy of an Arsbic Male in SSB at 13.30 on 14472: can anyone confire if this still around?


## v9) ORIENZAL LARGUAGKS

 this issue. I also received atape recording from Mite in hent of the "Bright Mo Ha" station - mhich I had never heard bofore.

It is wery difincult for zuropaw monitors to ID these stations so $I$ שill list the as supplied dnd hand over to our Far fast division for help:


REGULAR - TIF Daily

| 18.00 | 5738 | "BRIGHT MO HA" Calls for 5 Minutes |
| :---: | :---: | :---: |
| 19.00 | 56280 | Reception on 5738 is very variable |
| 20.00 |  | in furope due to heary jemming of |
| 21.00 |  | clandestimes. |

(13) REM STAR BROADCASTING

Purther detmils and fragusncies can be founct ins our feature "Lookinu Bast in thus issure.

$$
\begin{aligned}
& 15.00 \text { Audible in the Un when conditions sre } \\
& 22.00 \quad 8300 \text { Good. }
\end{aligned}
$$

## MORSE STATION NEWS

Keeping up with the ever-increasing amount of Morse numbers traffic is proving a difficult task. The only way we can continue to report fully and accurately on the activity and changes that seem to constantly take place in the shadowy world of Numbers Stations is to work towards using: 1. Dedicated monitors who are familiar with the habits of specific stations - who know exactly what to look for: Intelligent quesswork and even intuition can then reap results, and listening for the more 'difficult' stations. then becomes less a matter of pure chance.
2. The use of stamdardised $\log$ sheets specifically geared to particular stations, and their often, seemingly illogical. schedules.
3. The use of standardised notation of transmission formats when recording logs - again, these would vary according to the station.
If all this could be achieved - it'z up to us here at ENIGMA Ha to work out how"we're going to do this - then we would be able to collate incoming logs much more easilys we"d be able to analyse them and pubifish their results more accurately, and the quality and uswfulness of logs received would increase.

All the above applies equally to voice stations, but the need is greater for the morsa stations is there are far more of thes; they are far more active and yet disproportionately fewer logs of these are received. Logs received don't in any way reflect levels of activity, and this is largely because many of our subscribers are unable to copy morse. (a question on this was accidentally onitted from, our questionnaire) This is a pity, as voice activity is, in general, on the decline. Morse is the predominant mode amongst numbers stations and always has been; it is also used almost exclusively by illegals and agents sending their messages back to their home countries - vaice is never used. Morse has several advantages over voice: it has a very high immunity to interference and jaming; under poor conditions numbers read out as words can lead to ambiguity creeping in through misreading. Morse is an international language - it doesn t give away the language spoken by its recipients: it is less obtrusive and can hide away more easily in the MF spectrum, especially when high speed keying is used. Lastly, it is the ideal mode for low power suitcase-type sets as transmitters are far less complax and are therefore smalier and more relizble. When properly suppressed against key clicks and harmonics it is far less likely to cause interference to local receivers (and mobile DF units) than R/T modes: it can also be sent from a hotel rooms for examples in silence, unilke an agent spaking into a microphone!

Any of our subseribers who feel thet Morse numbers stations are boring or irralevant are mistaisen. To newcomers, hearing a voice numbers station for the first time conjures up the

Glamour of espionage. However, a meaningless string of dits-and-dahs means but little to the uninitiated. These voiceless, accentless, languageless messages certainly lack the glamour of something like the outrageously obtrusive Jyrolean Musicstation, but we mustn't forget that they make up the bulk of numbers traffic. The glamour is still there. but it is more subtle. Being less obvious, and therefore more secretive, morse is ideally suited for low-tech undercover HF communications.

We must emphasise that ENIGMA exists to investigate All numbers related activity, not merely that smalls vocal and popular segment which consists of voices reading out numbers. That may have started us all off, but it's only the beginning of the story. If. we are to take our subject seriously, then we must avoid restricting it to one small area merely on the grounds of popular appeal - whether it be due to inability to read morse or for any other reason. It is hoped that our reports on Morse stations are read by those unable to read. Morse as basically it's all the same subject, and co complete the jigsaw we must liave all the pieces. Most operations use both morse and voice modes and voice stations sanot afford so be looked at in isolation. For examples the so-called 'Strich' group uses well over $90 \%$ morse transmission, yet the majority of logs we receive would give the opposite impression. Unfortunately, logs received do not accurately reflect activity levels, and this is mentrely due to our disorganised and erratic listening habits and personal prefermess. Whether you are a hobbyist, a serious investigator or merely curious we all wane to break the internatiomal conspiracy behind the Numbers Stations - only a professional approach can ever do that.

Now for the news itself!
Mi As predicted, the main network adopted the 463 schedule at 1300 on 2nd September. At 1800 on 2nd November it will change to 197 for the next four months. In August this network's secondary channels were dropped and have not bewn heard since. Perbaps a more powerful transmitter is now in use - signals seam ven stronger. Perhaps they, whoever they' arte need their other $T x$ for other purposes. The secondary networks, 743, 503 \& 108 disappeared from their unual slots on 30.9 \% 1.10. Thay may still be around. More on this complex station in the accompanying article. A new secondary transmission was heard at 2010 saturday on approx 4630-its in needw confirming.

M2 As predictable as usual. Winter schedule should bugin soon - frequencies will only change slightly. Ganerally. lower freqs were used this summer than last. As expected, gi2 (NNN) showed the same tendency. Always.very strong in England.

MK Memsage levela are definately increasing: using similar listening patterns each year these are relative. figures $-1993:$ all 100, 1994: 12 (building up in Autumn), 1995 50 far: 26 (again, building up in Autumn). The messages themselves strongly favour group counts in the low fifties. Several new ID's have appeared, all conforming to known clusters except日57. however, about a year ago an "unknown morse station" sending 854100 was reported. Active freqs since july: 3825 $401544654610 \quad 5050 \quad 5150 \quad 5180 \quad 5365 \quad 3520 \quad 5550 \quad 5860 \quad 6330 \quad 6334$ (both of these returned on same morring) 6750681069057444. 7580771078418033918099501054010720

M4 Still around on 3 e25 4195 5340. Sorry! Schedule still not ready. Help neaded!
OLX As active as ever. Look out for its winter schedule coming up. No changes.

MZ In August the 10 minutes of rapid dashes preceding M10 transmissions became erratic and has effectively now been dropped - for some reason a short burst of dashes still often appears at around 12 mins before start of transmission. The last eime I heard M7 was also in August. Thas may be due to changes in my monitoring pattern and/or change in schedules. On the other hand, if M7 was to also drop its dashes (in line with mio) this would ${ }_{A}$ very littie. time for tuning ing as M7 only sends one minute of tone sequence followed by a preamble sent once, eq. $96696696632 \quad 32 \quad 1717=0$. No new schedules have been discovered so far, so M7 max have merged with M10.

M8 Regularly heard in the mornings with a strong signal. 3420 67857520 7528. Often has a distinctive 'quenched tone' modulation and clicks when key opens. Uses cut numbers, (ANDUWRIGMT) and has been reported by Don Schimmel in his book operating as high as 18434. May ba morse version of V2/3.
M10 See M7. Lack of rapid dashes and its habit for commencing at any 10 minute interval, make this one harder to find. Schedules are usually fortnightly, repeating on the following day at the same time, and on the same parallal fraquencies. Winter freqs camm into operation in September: Amongst others 253 as always can be heard at $0820 \mathrm{Mon} / \mathrm{Tu} \mathrm{m}_{5}$ on B190/17845, 408 \& 695 at 0900 on $4485 / / 5301$ (Wed/Thur - same. weeks as 253). Not yet identified: Mon 1640 on $4495 / 1$ ? to 275 and at least one more. Thur 2020 on $4835 / 1$ ?

M11 Only ona peport (again! Thanks to Ian in Seotland): 6th September ending et 1443, on 11470. ID missed.
M12 Always seems to be around and often extremely strong. This isn't the place to list its numerous callsigns and schedules. If you can't find this one buy a new Rx - an o-v-o will do!

M13 Message indicators still steadily increasing and close to 160 now. Usually this number inreases by one each month and always coincides with a new message.

M14/24 M12 notes above apply equally to this one too.

- BBY Still with us. An article will appear when we find the space:

M17 Schedule still not ready. Can anyone find the 2nd repeat: for the following transmissions? Wed 0900 7425-6675-???? (ID: $53 \times x \times$ ), Tue 0800 9050-8070-???? (B0xxx) These may not be weekly. I've checked all known freqs and can't find it anywhere. Either, 2nd repeats aren't being sent or transmissions are beginning 20 minutes earlier (both unlikely) or a yet to be discovered frequency exists.

M20 Last heard around early July. Due to its varied habits it is not always easy to be sure on this one. However, it was very active from 27.3 to 27.6 on its usual freqs: 5540 5625/16520 6918//8307 9285 and a new one, 11325. Use of these freqs, and faw more, halp. to confirm its identity. May transmit many times daily and never uses ID's.

M21 Still wandering around the $3-7 \mathrm{MHz}$ regiong sometimes using two parallel freqs. Sends its 14 character "time signal" once a minuteg with the occasional short 144 message between. Recent fregs include $3297 \quad 3839410341124823 \quad 5142 \quad 5181$ \& 6966.

4x2 We have received some detailed reports of this station, but haven't yet had time to collate them. We will!

M23 Not heard since January in this form but now I'm certain that it appears in various Hisguises, M20 being the main one. It clearly has an identity problems and has odd habits but is quite predictable when it is going through one of its periods of frantic activity. At least it's conservativa over frequencies.

KRH family After many years of operating we can now confirm that thly large CIA network has closed using morse. It continues using Harris 39, a sophisticated modi of which i know next to nothing - probably from the same sites. I believe its two Oxfordshire long-serving morse operators have found their skills redundant. The quastion is, whe did it use morse for so many yaars without passing through RTTY phase?

M26 Instead of the promised review of its antire activity there follow a faw mamples of its activity in Septrembers $5.9 .95083598 \mathrm{cal1,98} 0413391111$ for 2 mins., $98^{\circ} \mathrm{s}$ againg. (0938) 9604133111161535622 (0840) 980418818111 (0851) 98 $0418812112(0852) 980418815112$ (0855) 980418810009 (9 54
graups follow) then 98 041日日 12191 98 $041861219298 \quad 04188$ 11112 (etc. to 0900)
This was all sent continuously on 5171 kHz
7.90500 now on 4438 : 9898466 by 0530: 98 04044 1111111111 (0545) 98 Q4200 1111181111 (0551) 98102601111181111 (0558) 98102681111191111 (carrier shifts about 500 Hz LF for a few seconds).....(0620)98 1022511111 11111 (0625) 98 1022411111 11111 then back to 9610925 etc. By 0805 it was sending 98 Q1444 2111211111 and was off the air by 0900.
At 2000 on 8.9 it was on 4442 kHz sending its never failing 98 followed by 980882111111111.
On 9.9 at 1500 there it was again, this time on 5171 sending 98018881111191111 Between then and 1600 it sent these "messages': 98 Q1888 11111 51111, 98 0110 011111 11111, 98 0110211111 21111,98 9166611111 21111, 98016661111881111, 9801666 11119 81111, 98 Q1666 11111 91111, 980166611111 21111. At 1601 it reappeared on 4442 kHz . At one stage for almost an hour only the middle $5 f$ group changed at all, and even them very slightly for the last a figures were always 1111. By 1900 it was on $4439 / 13156 k H z$ (Yes! They have two transmitters!) sending 981088631113 11111.
My theories about this bizarre format will have to wait: meanwhile, have you any ideas?

BTV Back to relative sanity, ETV, along with YT have become lazy again. Even the Monday 0600 slot has been inactive for some time. YT is prone to this and has suddenly reappeared again on its usual schedule. There is no correlation between this operation and reported events in former sugosiavia, despitte 'Langley Pearce' and his UDBA. BTV has very recently been heard underneath the new U.S. data transmission on 4756. believad to be coming from Barford St. John.

HEP A dramatic event has recently taken place in the history of this tediously uneventful station. The call is now followed by a figure which changes along with its time-shared frequency-hopping cycle. That crucial figure is 3 for 3314,5 for 5268 , 7 for 6971 and 9 for 9186 . It is rumoured that this refers to the fixed service band occupied, to the nearest MHz , but what is the point?

VDE Nows at last! Dn Thursday l6th August i logged the first recorded VDE message. It was sending its usual call at 1815 on 6739, and returning to it at 1822 it was sending 5F pairs, ending at 1826 with AR. It reappeared on Tue 19.90630 on 6627 with yet another messega - 32 groups ending it 0640. Its format has at last been established: UVV VVV VYV DE VDE VDE for 5 mins. then, in this case, $==73733232$ 5 5 gago 0890 (then 32 pairs at 7.5 gr/min, short zero) AR

FDC Very active still, with its strange 'messages'. Will be covered more fully when space and time permit. The quantity on
information sent over very long periods, combined with its extravagant use of frequencies make this one of the most apparently inefficient and pointless of stations.

P8K Active sending messages of 5F or 5L daily at 1900 \& 2000 on 6960 kHz . Keying speeds vary considerably. We hope to pulilish fuller details of all nos. stations when sufficient background becomes available. Keep sending in your logs. Just because they're not always published doesn't mean that they're not useful in preparing future articles.

M34 A rare capture (thanks to lan) of the "12345" station. Heard with several short messages on 5 th October at 1455 on 5197. Does it run a regular schedule? Could anybody check. this?

M35 Still around on random freqs sending its meaningless strings of $V^{\prime} s$ interspersed with $K$ 's. Hasn't anybody else heard this oddity?

M39 Another less common station appeared on 10th October at 0800 on 6690. The 3 \& 5 figure station appears to be some $k i n d$ of "control' transmission as it doesn't send messages in the normal sense, however, it does use an $1 D$, in this case 034.

STATION CHECK LISTS We plan to have these available separately in clearer presentation. Meanwhile here"s a couple more:
M42 The "KUL Brotherhood" (operated by ex-Eastern Bloc/Cuban joint intelligance organisation, SOUD. A vast network.
M43 6xM6: C37A Germanyflsmal fixed link.

```
We've decided to incluce these two, although morsa plays only
a smmll part in their operation. Both officially don't exist.
Any information on these is especially welcome.
VZ Delete. This is now confirmed as the same station as V2,
although they use two voices. The number of "finals" seems
arbitrary.
VI5 N. Korean
V16 Cminese 11028kHz
```

Further additions to the check lists will be included in the mext issue - will they evar end?

SLHFB's $(M X)$ - see also 1 ater.
"V" 5329 moved to 5274
"R" 4325 but not at present
"D" I thought all thesw had gone but one recentiy joined the $S$.-n
\& C cluster on 8494 for a while

## STATION IEATURE -

IHE "TWO-TONE" STATION (M1) - see alEo Morse Supplement 2

The term, "two tone" is now something of a misnomers for transmissions are now only modulated (at a low level) with a single tone of around 2 kHz - the carrier is keyed. This change appeared at about the same time as secondary frequencies were dropped from the main network, so the presence of the lower frequency tone could have indicated the use of the lower parallel channel. Many features make this station quite unique, not least being the fact that keying is by hand and probably live. Mistakes are frequent, but always corrected, and at least three individual operators can be identified.

Scheduling is complex, as three separate networks operate, eacin conforming to different scheduling rules, however they all use the same general format, apart from the main network's "end of month" formats, which will be covered in a following article. If we call.these networks $A, B$ \& $C$, $A$ is the main network (which always uses the same three alternating iD's throughout the year - 177463025 463): 日 is the secondary retwork which consists of regular in's operating to a regular schedule. $C$ is a network that appears without warning and can easily be confused with M11 - no obvious schedule seems to exist. "A" always begins on the hour and shows a very strong preference for 40 group messages - varying occasionally between 39 and 42. Networks B \& C tend to commence at any 5 minute intarval within the hour - it dislikes h+00 and h+30 it favours 20 and 30 group messages, again, with occasional slight variation. This peculiarity is unique amongst numbers stations. Messages are always sent in all cases (paired fandom 5fig groups), and repeat transmissions have never been known to occur. Although network $A^{\prime}$ s schedule contorms strictly to month of the year, $B$ changes its schedule unpredictably, as it did between 24th \& 29th September.

Network A operates six known transmissions weekly, and 10 's change according to which set of schedules are in use at a particular time of year. i.e.

```
1 9 7 \text { November, December, January, February}
483 March, April
025 May, June, July, August
4 6 3 \text { September, Dctober}
The transmissions are as follows:
1 - Sunday 0700 2 - Tuesday 1800 3 - Tuesday 2000
4 - Thursday 1800 5 - Thursday 2000 6 - Seturday 1500
```

| $4197 "$ $3 \& 5$ | Frequencies: <br> - $44901 / 3868$ | $\begin{gathered} 1-6280 / 15465 \\ 6-5810 / 16810 \end{gathered}$ | 2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| "463" | Frequencies: | 1-7434/1650日 | 2 |  |  |  |
| 3 \% 5 | - 5017//4155 | 6 - 6261//51?? |  |  |  |  |
| "025" | Frequencies: | 1-7340/16760 | 2 |  |  |  |

- Transmissions 4,5 \& 4 usually operate the "end of montin" format, always on last Thursdays and Saturdays of each month. Although, at present, only twelve of these 24 frequencies are in use, parallel freqs are shown as they could return in the future. These same ID's and freqs have been used since the late $1970^{\circ} \mathrm{s}$, at least.

Network B, too, seens to have been around for a long time. It never used parallez frequencies and is quite independant of the other two networks. This year, until week commencing Sat 29 Sept it operated the following schedule:-


More exist, some of which could be $C^{\prime}$. There is scope for much more research on this station - volunteers welcome!

SLHEE NOWS (MX) - continued
As usual, we are getting nowhere fast with these. They remain as mysterious and inscrutable as they were in the $1960^{\circ}$. All kinds of wild theories abound, (especially from U.S.A.) but none sound very convincing. Activity is much the same as always, with the regulars still going strongs and the sporadics still popping up from time to time.
"c" "S" moved a few months ago from 5306 to 9154 - wil their other frequencies remain the same.
"R" moved from 7452 to 3323 quite a while ago nows still//3196
"L" still on 3091 with its bad chirp!
"V" still on 3174, however, new one is now on 5274, and like most $V$ 's has irregular spacing. Ondy the $V$ 's exhibit this peculiarity, and another on is the occasional tendency to modify the sending of the $V$. A couple of years ago: on 9162 V became ...-. for a while, several times for hours on end. Recentlys $V$ on 5274 has sent $H$ or 5 . Is this deliberate? The regular-spaced $V$ on 3174 always remains the same.

Sporadic solitary SLHFM's include: 5 6572; $C$ 6866, 5862; $p$ (the commonest. usually for 5 mins on the hour) $5862,6872,6966,4080,3170,3838 / / 3806$

## STATION FEATURE -

## M32 - THE 14403 NETUORK

In November 1994 we received the most detailed logs to date of a single station - amounting to 48 A4 size pages! (many thanks to Walt in Hull) Covering the period 24.9 .94 to 27.10.94 (with gaps) the logs were compiled between 0535 \& 0930. The network involved included 50 different 4-character callsigns, eleven of which were constantly calling the remaining 38. Over this period only 20 actual messages were received and have all been recorded in full. I have found that analysing these extensive logs has been a long but fascinating exercise.

In this article I propose to cover the general structure of the network, including its callsigns, leaving the messages proper for the next issue.

All transmissions were on a single frequency of 14403 kHz and were sent in hand-keyed morse at speeds varying from 3 to 25 w.p.m. Figures and letters were sent, including umlaut $A, 0$ and $U_{y}$ and also the CH (i.e. 4 dashes). This may or may not indicate a German origin.

Transmissions consisted of particular eallsigns calling another, but different set of callsigns - callers. never called other "callers", nor did those called ever call one another. $0 f t e n$ calls were repeated many times, but replies were never heard on this frequency. These calls were oftem accompanied by short instructions, which took the form of $Q$ and $Z$ codes. Most of these codes are unlisted in standard lists, and af those that were, several were unlikely to refer to the conventional meanings. e.g. QBE? - are you winding in your aerial! For otherg, their normally accepted meanings could not have applied in the particular context in which they were used. Here's a list of all the codes used: (could anyone help us on these?)

QRJ QSV aCM QTC GYt QSW QJg ata awp QLx alx GRr adke asa abe QRK ZWh QRQ OSVC ZBC ZBY ZRC GTA QEE ZZA ZRD GMO ZZC ZLX OSD ZOX ZBK ZRJ ZOL ZVL. ZNM ZMU ZPD ZOZ ZVD ZCW ZCU ZGI ZKA ZOB ZAX QYD ZKH ZGT ZRP ZHG QCZ ZZC ZVT ZYH ZFP ZFR ZIX ZGW ZFPP IIV $2 I I$ aSVC (in order first reported), QYT, QRJ, QSW, GRR, GSA were always followed by single figures. eg. QfJ4 officially this would mean "I have 4 R/T calls to book" GSA2C also cropped up. Dther procedural signals used included RPT RK BK $=$ OK $K$ RBIT ASND ANSO CASK. The twenty actual messages were all preceded by QTC $K$ (I have message for you), however the日th message was preceded by several calls of NSMC NSMC NSMC DE ZYDR ZYDR GTC NGF K

Qver the period monitored, eight callers operated until 20 th October. These were: HRHG SGMG L97M LPGR 81C5 ZVDR Z1C5 BXWZ. Of these, HRHG and ZVDR made the majority of calls, yet by 30.9 HRHG had sent its last call. ZYDR predominated from then until 20.10. From 21.10, an entirely new set of callers took over: KGA7 (predominant) C7LN and L8JU. At the same time a whole new set of callsigns replaced those that were being called by the first eight callers. Monitoring finished six days later.
Numbering the callers from $1-11$ (HRHG-LBJU in the order given abovel, the following table lists the 38 called stations, in order first reported, and their associated callers. It does not include the number of separate occasions that calls were made.

|  |  | Cread | from left to |
| :---: | :---: | :---: | :---: |
| CM1U-1.4 | GD7U - 1 | L22Y - 1 , (reod | right) |
| ZAND - 1 | WGNC - 1,2 | 7WFK - 1,2 |  |
| WTNC - 2 | P20X-1 | 7FMS - 1,2 |  |
| LWaV - 1 | 5ZLN - 1 | 31DV-1 |  |
| 20hF-3 | PLGW - 3 | N.305-3 |  |
| WEOA - 3 | 6RPL - 6,8 | VYB7 - 5 |  |
| UFI2 - á | NSPM - 5,b | MSti4 - 6 |  |
| VWE7 - 5,6,7,6 | S4NA - 6 | $7 \mathrm{AD3}$ - 6 ( ${ }^{\text {7 }}$ |  |
| WLHN - * | N23K - 6 | 7AD3 - 8 New Set | follows:- |
| BZ3G - 9,10 | YEF2 - 9, 10,11 | X321-10 |  |
| VOMI - 10 | WBNI - 10 | QWKD - 10 | wovp - 10 |
| 7G2K - 10 | F9XA - 10 | k762-10 | same as | 762K:)

* WhHN may not be a callsigng and appears oniy in the following uncharacteristic extract:

```
VYV VV V VV ........n (error signal)
XXXXXX WLHN WLHN }34678\mathrm{ DIPASFEN 59E3 5918 KXXXXX WLHN WLHN
34678 DIPASFEN 5983 5918 K This was followed by:
VVVVV.........GRPZ GRPZ GRPZ DE ZYDR ZYOR K etc.
```

Calisigns are not entirely randomly composed as they never contain more than two figures and there seems to be a preference for certain letters. Their structure is the same as that of the so-called Non-commercial Beacons and this station could be an example of particularly busy one. These can befound 211 over the HF spectrun but are very rarely reported to ENIGMA. In the next issue we will devote a further article on M32 to the structure of the messages themselves.
 MORSE FORMAT CHART NoZ Mas had to ber postponed until the next issue. We apologise for this delay. Thera was also mistake at the very end: M12 actually uses a 3 OR figure decode key, not 2 or 3 as stated, as also does its voice counterparts. Sorry, entirely my fault - M.G.

## Letters to E.N.I.G.M.A.

A Wary marm golcome to isswe 9. Let ae start by thanking all our readers who sent in contributions to the newsletter. Also, jay me take this opportunity to gish everyone a very happy new year for 1996.

We have had a very good remponse to issue 8 and a great deal of feedback, so much so that it iss difficult to know where to begin.

Our opening letters conceri sites, and we start with Harold in Southamton. He tells us that ho has recently finished reading book about the German secret martine radio beams which mere used to cuide their howbers to their targets in Britain. These beavs nere of course hishiy secret at the time and went under the nawe hnickebein.

One of the transmiter sitess was locsted at Bredstedt husum, near
 $57^{\circ}$. This is a site we have mentioned in previous issues ws the home of the numbers station DRAL7. In its diay it was a huge place, with onnrious rectumgular aerials on rotating steel platioris.

A further transuitting site for the Gerkan martive beams was lockted at Eleve (be spell it cleve for some rewson, but it is fams for Ann of Cleves) and I mondered if it too. nieht still be operational for number broadcasts. It's certwinly a possibility. This is very elose to the Dutch border at Nijuesen mt 51~ 47.5 N and $6^{\circ} 6^{\circ}$ F.

Stayine on the subject of sites in Gernany, fritz mrites from Sultzerland with a fea reneres concernins Mike"s article on the BND sites in Germany.

- Hreumholzhusen is situated abont 23 k HM of Munich.
*     - Stockorf perhaps should read Stockelsdoré, 5kn of Lubeck ( place mhich would ake sense anywiy).
- Rosenhein is about sole SM of Munich.
- If Maisinge which I could not find anywhere, would read Maisach, it agmin would pake sense, as it is एery close to Kreusholehausen. 舜
- And just to be very accurate : it is "Tutzing" and "Hesmershein.
+ However, Stockdorf itself does exist - whereabouts is it ?
 at Iberacker. Ifd notes.

Fritz also asks about a norse met mith the callsigm MZD. Me tolls us that he believes it mas an anuborne smidunce system of the former DDR. Bint it is still alive and sell and shoms up in many variants: USB, Baudot 50, CW with varying leagth of groups and is almays very fast. Fritz would like to knom nore about wed, which has been on the air since the early $1970^{\circ}$ s. Can your help?

Fritz ends by telling us that the suspect HEP is officially located 30h from his QTh mear Zurich and Lives S9+10dB. We are still very keen to obtain more information about the purpose and location of HEP.

ACHTVAG! $\triangle C H T U N G!$ - IGB's Fifth Man is Desd.
John Caincross, the martime spy knom as the Fifth Man, has died at 82. He admitted four pears ago that he was the missing link in the notorious KGB spy ring of Kim Philby, Guy Burgess, Donald Maclean and Anthony Blunt.

Cayncross was the last surwivor of the group known as The Pive, who were recruited as $\mathbb{Z} G B$ agents at Cambridge in the 1930s. During World War II he passed British military intellisence about Germany to the Russians.

He died yesterday (Oct 8th 1995) at the West Country cottage he shared with his 39 year old American wife Gayle Brinkerhoff.

Spynriter Higel West, Tory MP Rupert Allason, had been oditing Caincross's menoirs. He described his death as 'the end of an era in espionage KNDF EMDF. Daily Mail 9th October 1995.

Ian in Parthshire asks a very interestimg guestion and one which should open up further discussion. How do agents sead signals beck to base ? I don't have a great deal in the way of ansmers on thisoone, but with the huge volume of "blind" (one-way) traffic semt each day the sgents or persons receiving the messuges must use some methods to either confire safe receipt of information sent by the numbers station or indeed send actual coded messmes back.

In his book Intercepting Number Stations, Lancley Pierce mentions the use of burst transmitters. These use a system of keying the morse nessuge onto a punched tape operated auto-keyer and then sendine the message bacle by plaving the tape at a wery higk speed. The "H1/ know the time and frequency of the burst of transmission and rocord the messige, this is then slowed dom to mornall speed and decoded. Burst transmissions are also sometines referred to as squirt transeissions.

Another possible method is to simply send the messase back in morse at a pre-detorained time and frequency, this mould still bo coded into 5 F Eroups of numbers or letters. The only problem rith doime this on a regular basis is that you would attract attention from opposing orgamisations who mas attempt to track you dom. It is not uncommon on SN to hear hand-keyed morse sending short transmissions consisting of numbers.

And on the subject of taking bearings on a very brief sigmal. the following information was received from an KHIGHA memer. He tells us, "me had an experimental direction findime site at Pailton (now a CAA Cr monitoring station) an offl-shoot of nearby RaF Hembold Revel. The question arose on how to take bearings of a very brief signal, such as from z $U$-boat under certain circumstances. He used an Adcoci antenna syste coupled to standard (Mriconi) gonioneter. An electric motor was coupled to the gonio rotor and a swall bar magnet attached to the edge of the rotor.

An electromanget was attached to the casing so that when the fixed magnet swept past the electromagnet, a pulse resulted that acted as a triger to set off a horizontal sweep of a twin beam oscilloscope with a bit of persistence on its trace. Beam No. 2 was just calibrated from $0-180$ degrees. The audio signal from the receiver mith BFO on was.fed to bewn No. 1 and the result nas a trace of the bearing, like -


It was interesting on short wawe with the distortine effects of phase fading, scatter etc. The gonio was Iater superseded with a four-valve smitchinc $R$ R amplifier coupled to four Adcock antennas.

On the subject of rhether one transwitter ras being used for other purposes, that was determined by feeding the audio sigmal from the receiver to the vertical trace of an oscilloscope (the horizontal trace was not used). A camera was attached to the 'scope face and 35ma filin run (smoothly, not by frames) across the signal. The resulting filie then showed (ideally) an oblong for a diash and a suuare for a dot. But indiwiduml transmitters had their own characteristics perhaps a small sparh when the hey was closed - that showed up as a zipple; or maybe when the rey was lifted the sigmal had a bit of a trail and so on.

Thus ome could sometimes find a German transwitter on an Italian sub by the pattern; or see when the transmitter had been maintained or altered. If the fill axs of any length it could be used for identifying the operator.

Staying on a similar subject, a neq member of BNIGMA from Cheshire sent us some interesting information concerning the Lincolnshire Poacher station. He has studied the station for some years and has used a spectrum analyser to study the sigmal. One conclusion reached is that tro different transeitters may operate on the 14487 kHz freguency, each transmitter having its om sigmature and therefore individually identifiable.

He goes onto inform ENIGMA that although there is a standard 200 Eroups in all transmissions, these are sometimes broken by Eroups such as 00004 \& 09000 which may indicate an "end of messuge" point. Based on this he informs us that traffic seems to increase at times of Uk Government international crisis, but, more specifically at different times or places of problems.

For exsmple :- During the "preambe" to the Gulf war the lup. station increased traffic but not during the collapse of Bastern Gerwany.

Staying on the subject of Lincolnshire Poacher, Andreas in Geramy sent us the results of further studies.

In ismue 8 of RHIGHA we showed a matrix of the messuge groups used by Lincolnshire Poacher; this mas based on nonitoring the $5 F^{\circ}$ ID number sent prior to the start of each transmission. The matrix displayed the way each aessage group is sent across the period Monday to Sunday and how many times it is transmitted between 10.00 \% 22.00.

Takine this a step further Andreas has married up the first matrix with frequency usase and this shows that what appears to be a random selection of 3 frequencies from a potential usage list around 20 is in fact far from tho case. Rach nessuge group (e.g. A to I) do in fact follow a complex frequency uswe pattern, which is directly linked to the message group been sent.

For example if we take message $F$ only it looks like this :

| HON 14.00 | 11 |
| :---: | :---: |
| TUR 15.00 | 10426// 8464// 7755 |
| 3 D 15.00 | 10426// 7755// 6485 |
| 1717.00 | 6485/1 5422 |
| PRT 18.00 | 8464// 6485// 5422 |
| SAT 19.00 | 8464// 6485// 5422 |

SUK 22.00

## 'G® schedule differs from all others.

You can see from this just hom complionted tho noprition is. First nesseges are brohen dom into 9 (5F) ID's; frow this they are Eiven a sliding-scale style schodule and then to further complicate metters the frequency useuge is phased into the sliding-scale schedule.

Andreas sent us a creat deal of information and included warious coments on the stations he hears. He joins us in the debate concerning the loceation of Swedish Rhapsody. Fe mentioned in our Iast iswue that this stetion has proved very elusive and little or no pire information has come to light on its oricins. Laneley Pierce stated in his book that Swedish Rhapsody was transwitted from Austria, although we respect his coments RHIGMA believes the station is in fact located in Poland, a view which Andreas shares. Information we received from one of our contacts also firmly follows the Polish line of enguiry.

Andreas also mentions the 3 Wote Station - which he tells me is enough to make hile afraid - even through the radio! He says that the 3 notes are not the same as the "Kein Anschluss unter diester Numer" announcement in the German telephone network, as reported in issue 4 OF RNIGMA.

Finally, he tolls us about an article he recently came across in an old edition of "Fos-die Tageszeitumf". from 1982. The feature concerned the Foice of Anerica.
"Sometimes the fovernment used the station (VoA) for secret service projects. In 1986, when the Iram-Contra. Scandal (the uS supplied weapons to Iran) pas the min topic, an editorial mas arranged with the Iramian weapons demler prior to broadcast, this was to prove that their US counterparts really did work under US government instructions.

A Georgian language service announcer was sacked in 1985 after he complained abont the fact, that he had to play Georgian folk songs in a rock music programe by command".

Greatimes now to John Griffiths, "Scanmime" columaist th the "Short Wave hagazine. He sends us some mens via Tir in Rast Sussex and Hans in German. The information concerns low band VHF and a transmission heard at 14.00 UTC on $25 t h$ Hay, the frequency 47.170 MHz FHF.

The station was heard in Rast Sussex sending words like" Hotosh, Karmosh, Hedash, Kneedash, Wullash, Uttush, Kilntash, Hadash, Harmush, "and continued repetitively. A guery on anateur packet elicited the response from Hans in Germany that this is a numbers station broadcast by the Hungarians and audible. in Germany. Tim asks whether WHR activity is a nem slant as numbers have been traditionally associated with short wave.

Given the nature of $F^{\prime} s$ travel distance, perhaps other meabers of GNIGHA might like to try around the frequency.

He would welcome any comments concerning numbers transmissions heard. outside the normal short wave bands; which leads se from Fh to Televiston. Yes, you did read that correctly. Dave in Shropshire sent us several clipping's from the June and August issues of Television Hegraine":-
"Mystery morse signals heard by severall enthusiasts via various satellites, particularly PAS-1 at 45 this colunn. Len Hooloy (Bude) tells us he has received them wia Futelsat and Intelsat craft and that they are used for identification purposes. With these craft they consist of similar length groups of numbers followed by unigure label. "PSSI STAR" with Intelsat and "STI EVE" Bith Eutelsat. They are mentioned in the Forld Satellite Almanac.
"Roy Carman (Reigmte) has queried the morse (CU) signals carried by PAS-1. John Locker checked this out and found the feed coded "GES WVSS MJ WB" followed is a strins of numbers. It's thought thet this is a coded weather bromdeast orisimatine fro Her Jersey. Morse has also been noted at times wia Orion".

Hell, interesting coments,-coded meather, and identification purposes the technolozy may have chonged but the excuses seem rather pawiliar ! - comerts as always very wielcome.

A quick hello to our good friend Geoff in Bxidgend. He mentions that MPL at 13.20 on 10180 nom seems to have disappeared. Anyone heard it elsemere?
please remember to send in your contributions, letters and logs to arrive by Pebruary 3th 1986.

Our address is: RNIGMA RIEWSIETTTRR. 17-21 Chapel Street. Bradford, West Yorlshire, BDI 5DT KIVGLAND.

And greetings also to regular contributors, Alan in Solihull Hest Midlands, Jacques in Amstelveen, Marcel in France, Mr T.A.Joy in Rerala India, and everyone else who has taken the time to write to us.

Greoting now to Risto in Rinland who sent in fime selection of loge mad information. He replied to our requests for historical information about the Alpha-Phonetic stations and reports hearing RZI in 1979, KPA was the second station to be noted in $1980 / 82$ and noted other call1signs appearing one by one during the $1980^{\circ}$ s. FTJ was the newest station to appear and was first heard in 1990/91.

Risto also mentions that FLU was heard with messaces in the early $1980^{\circ}$ - but no longer seens to be active. Listtaing in Finland seems to sive different reception conditions to those in the United Eingdow. The Russian Counting Station (S14) - this takes the form of a continuous loop which plays for hours on end - was noted in Finland as early 25 14-30 UTC on 4328 kHz, this simal does not usually reach the UN untill the darli path in the early evemine. Readers may note that the loop tape can now be heard read by either anale or feale, at the time of going to press it mas noted on new frequency 4030 kHz .

Risto ${ }^{2} 1$ lso reports good reception of the "Chetta" station (S12) which is at present operating on the 1st and 3rd Wednesday of the month at 21.00 UTC on 5180 khz. Unlike its other voice countexparts this particular one does carry messages occasionally.

Please see station news for a full list of the numbers spoken by this station, comments welcome.

Geoff in Myondhan, Horfolk asks if we know of any cassette tapes of warious computer RTYY tone sigmals which can be used for fast identification, Can any readers help? I an only anare of two mysulf, the first is the Audio Guide to Shortwave Sounds from Interproducts which mes featured on page 35 of issue 8 ; also there is a very comprehensive CD of modulation types produced by Joers Rlingenfuss.

I will quote frow the publicity handout, "This unequalled product is based on 25 years of experience in the radio monitorine and publishins field. Tevo standard audio compact dises running 2.5 hours cover a total of 71 electromagnetic emissions. Compiled from Disital Audio Tape (DAT) recordings made recently by a professional monitoring service in Europe; these CDS allow rapid access to the typical sound of all conventional and exotic radio comunication systems found nonadays on shortwave.

Connect your CD player to state-of-the-art decoding hard and softmare such as WHIVERSAL and HAYECOM teleprinter decoders and practice tuming these professional teleprinter and radio pabing systems for easy analysis and display. Synchronimation is perfect as a result of digital racording technigues that prevent any play-back speed deviations normally experienced with analogue recordings such as compact cassettes".

If say readers would life nore information the radiress of Elingenfuss Publications is; Hugenloher Str.14, D-72070 Tuebingen Geramy. Phone +49707162830 or Fax $+t 497071600848$. II not andare of any UK distribution for the product, but if anyone is, we will be very happg to publish details in our neat issue. Thanls.

Hallo nom to regular contributor, Pater in Saffron Walden. Peter reports heaw traffic from the English languace counting stations (Cynthia) Which is busier nor than for some time. The result of all these extra transwissions seem to have put pressure on the systens and quite a fer mistakes have taken place.
"Recent problems include sudden off air endines, resulting in the whole" transaission having to start again (even though it had been running for 20 ninutes); on other occasions the wara up has continued mell past the hour with messages starting at 25 minutes past the hour!
Another strange event occurred on July 2nd; Cynthia was weak during the warm up on 9070 kHz at 16.03 , but on the same frequency and quite strone I could hear two BBC transwissions mixing with each other, one Wzs the World Service and the other was ars "English By Radio" transmission which the BBC broadcasts for those learning English. Both. of these lnave strong outlets in the 31. BC band, a few hundred ldiz up the band. I sure this. weas not due to problem with ry receiver front end - I found the same effect on my Lowe HF125 and also on a one walve receiver.

Also, there was another mishap in this transwission. During the ware up the "call $275^{\circ}$ stopped on several occasions with the tones and "count" G3 mot starting until 16.17. The salte effect of transeitter tixing on 9070 kHz Was also noted on the July 30th transmission.
Traffic seems to have increased considerably frow around April 20th following the bomb explosion in the United States.'
guick note to Richard in Buckinghamshire. Thank you for your recent contributions - these will be held over to our next issure.
Hike in rent regularly sends in "heaps" of logs and coments and wost recently some cassette tapes of both number stations and odd noises he has heard. Thank you for all your contributions, which are really appreciated. Mike also noted considerable increases in traffic around April 20th from the Counting Stations and also the Alpha Phonetic set up, even CIO burst into life with a 12 group message.
Wore recently Hike coments on further increases in traffic levels frow Alpha - Phonetic stations around the time of the defections of high ranking officials frow Iraq to Jordan.
Mike also coments on our section "Things That Go Buzz", and has been working on some of the sigmals we mentioned -i using a spectrum analyser on such things as the Crackle and our now fanous Faders!
Staying on the subject of the Middle fist, Brian in Mest Sussex writes our book revier for this issue. "By Hy of Deception" tells the story of the "Haking and unmasking of a HOSSAD Officer". Brian is also on the traill of the faders and mentions mother signal whicls readers ray have come across.
Brian says - "rhen I first read pour description of the faders, I was thinking of sliehtly different signal I had heard on the bands, mich consists of similar sigmal.

This is of a shorter duration which appears to fado in strength, but in fact is moving down the band about 2 kHz at a time in switched steps.
The sound is similar to that ade by a \&rasshopper/cricket and has a skower, harsher note than that of a fader. The signal appears to have "phase" - like the effect used on late $60^{\circ} \mathrm{s}-70^{\circ}$ 's pop records. The signal will be transwitted on 3428 , then appears to sudienly drop in volume. Retuning the receiver however reveals that the sigmal has jumped up or down the band. The move will be earactly 1,2,3 or 4 kHz from the original frequency.
This sequence is then repeated, with the signal jumping to either another new frequency, or returning to its orisinal freguency."
Brian monitored the station on 6 August at 23.45 UTC The following frequencies mere used.
$9428-9432-9430-9428-9432-9428$ Any readers
$9425-9422-9426-9425-9422-9426$ conments welcome.

Thant your, Brian, for all your recular contributions and logs.
Hello to Hens- in Trier, Germany. Hans mentions the use of 4740 kfz for the regular Ready Ready voice and MCH tramsmissions plus Drums \& Trumpets station, in recent months this frequency has become crowded with the use of 4739 kRIm by RAF Folmet Air Radio, which moved to this frequency sarlier in the year.
Homever in September RAF Folmet moved again, this time to 4715 kHF : can my readers explain the move? could it be due to interferemce?). At least the mumers transeissions are fairly clear again!

On the subject of numbers transwissions and interference - some stations seen to use reguiar frequencies for years on end (Smedish Rhapsody) mhile others seem to use rore random selections (3-Mote Oddity). Two readers reported the sawe incident recently; Mike in Kent and Hike in Aron both told us about a recent 3-Note Oddity transmission.
The transmission on 5617 (August, 21.10 UFC) was causing problems for air radio traffic, one user referred to her (3 Note Dudity) as that "bloody" moman". I have also heard HKE30. Berme radio bleeping the regolar transmission from "Magmetic Pields" on 6645 khz, neodless to say she did mot move!
That's all for this time round. Remember, we appreciate your letters coments and logs for RhYGMA which should bo sent to our miling sddress.

THANE YOU \& PLEASE KEKP IH TOUCH - THIS IS YOUR REWSLETYER

It is with regret that we nust report the death of Den Baverstock of Patcham Brizhtion. Den was a regular contributor to ENIGMA and keon numbers station monitor.

## Things That Go Buzz In The Night

Wulcoma nlows to mother of our pagas, lota of the old friemedm are still around but a form new ones have appoared to feep the company. Hithout doubt our all time favourite is the Buzerer on 1625
 addition I also mrote a short piece about it in reply to a question in "Commuication" journel of the British DY Club.

## THE BUEZER

Just after this appener more information arrived, I should really so back to the Cold War Cluys when I had some information that the Buszer was transwitted frow area just outside the Polish border in thite Russia. Iast year while spoaking to Simou Hasom, he informed to that a reliable canterct (who will remin wery nameless) had told simon that the transwitter was sitwated to the South Rast of Moscows this information had bcen abtained using some oquipment not available to the lines of you and II!
In the last fow wolw he have recived further confirmation which bactes up the information Simon had recaived. The tramsuitter would seen to be situated ill an : area between Moscom and the tom of Perma which is about 300 -inle south east of Hoscon.
 Hoscom and Penwa form a trianlo (this will help you to rind Pensa).

We are still uncertain ill more than one location is ased (two transmitters do operate) but we are becinning to mite some progress on this particular Buze:

Just bofore coing to press we have noted the Buzar mbing a fan strange noises on 4625 kHz , on odd occasions* the sigmal seons to dramelically change inom itsrasular tome into a more random buse this lasts for fow minutes before the resumption of mormal service". Please report if you hear anythine odd! ton the hewr.

2HIE PIP
Another old Priend is still active on 3757 HHz and 5450 h月7m. 3757 kHF is allocated to Amtonr t FixedMaritime sorvices, fost issuc, we ashed if any readers were in fact involved in the RSGB Intruder mitch - not only did we recoive reply, but it was from the man that runs, it, Chris Cuminess in Chemhire. Perthazs you conId holp us with some of our Buzs itens.

## THTR RCHO

This spons to have rempearod arter an mbsence from the air and can now be heard most eremings on $1105 \mathrm{ft} \mathrm{m}_{\text {, }}$, signal streafth is wariablo.

THR BACTMARD MUSYC STARTON
This is wery wctive at present and recont ovening frequancies bave included 6689 hifz 6755 kHz , both carrying different sigmis. Recently me noted 3 transinitters operating at the sume tiae sendinm different signals.
 commection mith syster called hincompex, very detailod reply frow Richard in Andower.

Lincompox is an abbreviation for LIMear campression E Epansion. It processes the sicnal at an audio level. Ar audio in-band camior at about 3 kifis is freguency hodulated at a rate depondant os the amplitude level of the signal.

The sigmal itself is then passed throukh a linitar, compressine itz mpliterie veriations. This has the adrantuge that the transmitter can be run at a Rore efficient level, and thet the recoivod sighel at the diatant torininl cam be Ifmited, thas reducine iepulse noise tc.

At the receive terainal the 3 vis carrier is filtered out, passed. throurh a discrismator, and amplified. This sifmal is then used to control a marianle sain anplifier throush which the incomine aucio. is routed. This restores the original apliturle wariations. The 3 Her carrier has been filtered out and this suall fep in the aucto does mot decracie it to any appreciable amount.

The systein has bean in use comercially and on the Dofance.

 speech chanel on the LSB. In recent yexw speech is leas Ifealy to bo heard on LCW the security or setwlyito boing proferred. Othor methods
 nomtiplar it to a manber of sloner bsud rete chanmels switable for transmission on His.

Well, I often than mot sourrds line Peadbach from some Arabic radio talophome station ?! Mor informetion ws nlweys appreciatod.

## THE CLICKRR

This iss a nev sound to these pasem, but like most odd thiars its rether
 It mikes strons cifcking sound, the sound is sinilar to that made by some compure keypais, which clich to confiry dopression of a key ass been registmired. Goes on for hours: - try owaninss: Frequency choice yay be rexadian.

## HTS CRACEL盟




THN GRASSROPPR
 3 DE 4 HH stops. Heard around 9128 kis late evaninge.

 Faders which appours on the followins pases. yhank you to everyore mito has contribnted to this section.

## FADERS(XF)

You may have read in a previous issue or two of 'Buzz' my fascination with these odd sounds - which we have entitled Faders. My previous attempts to describe them seem to have been unsuccessful !

But, not down-hearted I shall try again.
My best suggestion is to check out all the frequencies I have given and then try and find the common signal.

How do Faders behave ? Well here are a few tips.

1) They are on and off air very often.
2) They vary in length from a few bursts of 8.5 seconds to transmissions which can last at least 30 minutes.
3) Faders are transmitted in FM mode - and therefore sound very rough in nature.
4) Faders glitch every 8.5 seconds throughout a transmission and once you recognise the mode you will find them on lots of frequencies.
5) They are called Faders because they fade to a lower signal strength and then reappear again.

The following is a list of all the frequencies I have monitored since the last issue of ENIGMA.

| 3190 | 4020 | 5095 | 6507 | 7498 | 8055 | 9125 | 10480 | 11102 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3211 | 13340 |  |  |  |  |  |  |  |
| 3248 | 5107 | 6797 |  |  | 9245 |  |  |  |
| 3297 | 4460 | 5145 | 6826 |  |  |  |  |  |
| 3820 | 4777 | 5315 | 6878 |  |  |  |  |  |
| 3827 | 4495 | 5330 | 6940 |  |  |  |  |  |
|  | 4563 | 5470 | 6990 |  |  |  |  |  |
|  | 4845 | 5648 |  |  |  |  |  |  |
|  | 4935 | 5789 |  |  |  |  |  |  |
|  | 4945 | 5847 |  |  |  |  |  |  |

How do we know that Faders are not just another noise which is from a recognised transmission mode ? Well, they do not appear on The Audio Guide to Short Wave Sounds and they are also absent

- from the Klingenfuss Compact Disc of Modulation Types, which. contains 71 electromagnetic emissions and is based on 25 years of monitoring experience.

This evidence would therefore suggest that they are either a mode which is considered "secret' or they are some form,transmission which has eluded the previously authorities on the subject!

When am I likely to hear Faders? They seem to be active for most of the time. I have heard them in the mornings in the $6,9 \& 11$ mHz regions. they also appear in the afternioon and right throughout, the evenings into the night on the whole range of frequencies. some for short periods and others for much more lengthy transmissions.

Due to the 8.5 second 'glitch' in every transmission and the constant on- and- off air behaviour it is difficult to detect how many transmitters are operating at any one time. however. if you are quick on the button and perhaps have a digital read-out receiver, it is possible to try and monitor lots of them - my best effort was 9 frequencies in the space of 60 seconds.

It is also interesting to note the strange FM mode used, this is a wide signal of about 10 kHz . however, the Faders are capable of sending in AM. one morning I was tuning along the bands and detected a number of frequencies sending out a $1 \mathrm{kHz} A M$ tone. after a few minutes of noting these I concluded that they were all Fader frequencies. Meanwhile other Faders were providing a normal service.

A final observation from Brian in Crawley. He tells me that he stayed on a Fader frequency for over 1 hour, and, although the Fader was not operational . it did send a single 8.5 second burst at $00.15,30 \& 45$ minutes past the hour. This would suggest that the equipment is still tuned while not in full use !

I would be interested to find out more about these odd stations. certainly the transmitter site must be quite extensive, also due to the very distinctive nature of the mode used I would suggest that it is only used by one organisation operated by a single country. Signals are certainly strong even in the afternoon. which suggests that the station's transmitters are quite close to the United Kingdom if not within it.

## Simon Mason Writes

A warm welcome to issue nine and the dark nights of Winter. something of a far cry from my 10 day trip to The Nether lands and Germany: I had intended to visit the town of Husum in Northern Germany to have a look at the origin of the old DEA47 transmissions.

The weather was so hot that the drive would have been very unpleasant. so I did not travel too far from my base in the Dutch province of Drenthe. However. I did manage some limited monitoring in Germany but did not find reception too different from my home QTH in Kingston-upon-Hull.

One station that was appreciably stronger was the German Lady - $000000^{\circ}$ ENDE (G7) broadcast on Saturday 29th July at 08.00 UTC. The YL repeated 5225225221 then 14382051438205 and into 5F groups. The 05.30 UTC Kilo Whisky broadcast on 12314 was much fainter which was quite surprising. The Russian Man (S7) was heard with strong signals on 13553 at 19.40 UTC with 519519519 000. Also, two Counting Stations in English were quite audible at 19.00 on Monday on 9219 and 5153 (not //). All Lincolnshire Poacher transmissions were clearly audible as were those from the Nancy Adam Susan family.

Now onto my main features, this time a look at VLB and an update on the German 2 Letter Stations.

## VLB (E10)

Monitoring VLB can be rather tedious. Most of the time the alleged MOSSAD station sends "VLB 2" at 45 minutes past the hour then leaves the air after a few minutes. However, on occasions transmissions can become irregular and unusual.

The date of May 2nd is a good example. At 21.45 the usual VLB 2 marker was being sent and went off at the usual time, but. this was followed at 22.00 by a rare event, a message.
In this case the YL repeated "VLB" for a couple of minutes and then started a 42 group message in the same manner as the majority of the other phonetic alphabet stations. A short way into the message the broadcast was abruptly terminated and the station was silent until 22.14. The message did not continue but a short "string" was sent. "VLB14D31". This continued until 22.35 when it in turn went off and the usual 2 suffix marker returned at 22.45 . No-further departures from the normal schedule were noted during the night.

I have to say that quite a few times I have been caught unawares by this station - with messages (not strings) being sent at nonstandard times. For example, I tuned into a VLB frequency at 23.40 and 5 L groups have been in progress which have invariably been stopped before the "End of Message" terminator. At 23.45 the

- "VLB 2" marker followed with the same signal strength. I am unsure whether on these occasions another stations message is being sent over VLB's frequencies (which sometimes happens), or VLB has short messages that can begin and end on a sonewhat "adhoc" basis.

At least I have have on tape a recording of a "kosher" VLB callup and message to prove to myself that they do happen.

Strings of mixed letters and numbers are much more common and here are a few examples heard recently starting with an unusual 2 suffix string.

A 2 means "no message". so to include a 2 as the first suffix in a message is unique, at least in my own records.

| May 17th | $01.40-03.00$ | VLB24T12F36 |
| :--- | :---: | :--- |
| May 17th | $20.00-20.40$ | VLB18L36T46 |
| May 17th | $21.45-23.45$ | VLB2 |
| May 18th | $00.45-$ | VLB2 |
| May 18th | $01.45-03.45$ | VLB13F16T44R46 |
| May 18th | $03.45-$ | VLB + Message |
| May 18th | $04.45-$ | VLB2 |
| May 19th | A11 Evening | VLB2 |
| May 23rd $19.45-$ | VLB14B88 |  |

On another occasion at 16.45 "VLB 2" was being sent on 7605 and 13921. At 16.50 it went off. but on 13922.5 another faint MOSSAD transmission could be heard. This is a similar effect to that experienced with the strange broadcast on 17502.5 of the station "William Susan Peter" at 12.00 UTC which is in U.S.B. off the edge of a Tunisian broadcast station.

Before leaving the subject of VLB, I noticed a very interesting piece in the "Contact" magazine of the World DX Club which originated in the HCJB DX programme. I will present it as it appeared -

ISRAEL - "Israel Defence Forces Radio is currently audible on 8127 kHz U.S.B. Try evenings in Europe. Rosentheim on the Internet reports that the transmissions are unintentional. There is a diplomatic station VLB near Tel Aviv on 8127 kHz that transmits for 5 minutes at 45 minutes past each hour. A strong AM transmitter on 1287 kHz relaying the Defence Forces Radio station is close by. The transmitter and antenna of the diplomatic station are left tuned up but the transmitter switched off. however. the AM transmitter is energising the tuned circuit and causing the spurious radiation on $8127 \mathrm{kHz} "$

The term "diplomatic" is that of Rosentheim and not shared by ENIGMA!

Editors' note: the carrier wave would have to remain on 8127 kHz other-wise it would be technically impossible !

Simon also sends ENIGMA the latest information on the German 2 Letter stations. (G16). These stations operated by the German B.N.D. have changed considerably since the re-unification of Germany and the end of the cold war. The 2-Letter stations were active through-out the evenings in Europe sending regular traffic every thirty minutes on short hop frequencies in the $345 \& 6$ mHz area of the band. In addition to this large set-up they also operated stations DFC37 \& DFD21 on exclusive frequencies in the 3 \& 4 mHz area between 15.00 \& 22.00 daily for many years.

And if that was not enough Papa November also operated daily sending short messages every six hours on a further four exclusive frequencies.

Most of the traffic heard at present would seem to be aimed outside the immediate area. Since the demise of DFC37/DFD21 and Papa November very few of the other German 2-Letter call-signs now remain active.

Stations active at present are CD, GK, KW, HK, WL, JW, \& SB in the German Language and MD and $A U$ in English.


The following is a list of the most active stations, but of course others are still around on a less regular basis.

| TIME CALL MON TUE WED THU FRI SAT SUN |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 00.00 CD | 11545 | 11617 | 12314 | 12210 | $11545 ?$ | $?$ |

11.00 CD ? ? ? 20350 ? 2024020350
05.30 KW 12314123141231412314123141231412314
$09.30 \mathrm{KW} \quad 16414164141641416414164141641416414$
14.30 KW ? 1641414945 ? ? 14945
23.30 HK ? $\quad 806393259040 \quad 904093259040$
23.30 SB ? 115451074010500 ? 101779450

I also suspect HK is also daily at 16.00 (try THU 18195).

Finally. MD (English language) (E16) is on Sunday at 09.00 \& 13.30 on Tuesday and Thursday around the usual 11 \& 12 MHz frequencies (see station news for full list of frequencies).

## STATION FEATURE -

In issue 8 we promised to take a more detailed look at spy tone stations, or polytones as we would like to call them. Although ENIGMA targets voice and CW/MCW transmissions which do not need specidlised decoding equipment we feel that Polytones are of interest to our readers.

The transmissions fall into three main types and we feel sure you will have come across these if you regularly scan the short wave bands.

1) HIGH PITCH POLYTONE TRANSMISSIONS, (XPH) this particular style of transmission likes to stay hidden and will often start at odd times such as 20 minutes past the hour. The signal is AM - very strong steady carrier - the transmission starts with a repeating sequence of tones, this is likely to translate along the lines of the identification and number of messages to follow, such as 4874874871 - 4874874871 - which goes on for several minutes. This is followed by a rapid burst of one number, probably 0000000000 then a faster tone message, consisting of signle 5F groups. This can vary in length from a minute or so to over 5 minutes or longer. at the end another rapid burst follows 0000000000 and the transmission ends.

There is no pattern to the conmunications (like the Russian \& English Man transmissions) although spy number frequencies are often used but it appears that schedules are short-lived and frequencies discarded after use. Transmissions are often on high frequencies but a few do drop down as low as 5 MHz . The transmissions are difficult for non-recipients to decode because it is not known which tone equates to which number as only the circuitry in the machine would reveal this ( which adds a further dimension to the problem of trying to break into the messages). The lowest tone sent always corresponds to spaces, so groups can be easily be counted by listening to the rhythdm of the message. Messages are infrequent because high grade agents only receive messages occasionally in order not to compromise their position.
2) LOW PITCH POLYTONE TRANSMISSIONS, (XPL) these may not belong to the same family as those described above, although we cannot be certain. The low pitch polytones tend to operate on lower frequencies around $45 \& 6 \mathrm{mHz}$. the signal consists of a very slow pattern of changing tones sent at a low almost moaning pitch. unlike the fast AM tones of the first station we described. It is difficult to describe the operation of these stations which are again random in both time and frequency of transmission, however I feel we are safe to suggest that they have a similar purpose to their more up-beat relatives.
3) THE SIX YONE STATIONS. (X6) these have been around for many years (certainly since the mid - 1970's) and have remained unchanged through-out their lifetime. Still very active the transmissions consist of a series of six tones sent over about 3 seconds, and repeated continuously for $5-15$ minutes. There are a number of different sequences sent, but one particular melody; seems more favoured than others. The signal is always strong and uses A.M: These factors, along with their habit of using frequencies and - times at random appearing at 5 minute intervals within the hour - are shared in cormon with numbers transmissions believed to be KGB/GRU controlled.

Several schools of thought exist as to the precise purpose of these transmissions, the presence or absence of a particular 'melody' may in itself indicate to the recipient a particular status or message. Alternatively, the individual notes may each represent numbers - as with polytones. i.e. a repeated 6 figure group, the tones are possibly the times for tuning in for

- a message, such as, 060900 could be 09.00 on the 6 th of this month, usual frequency.

No regular schedules have been found for the Six Tone stations, nor have any favoured frequencies, however, there is evidence of repeats being sent on different frequencies within the same hour.
So, what evidence do we have that the tone stations are espionage related ?
As we said earlier the Six Tone stations may well indicate that traffic is to follow, the proper messages consist of repetitive tones in a cycle then a continuous tone before many fast tones. The continuous tone then resumes after the end of the rapid tones and the cycle continues briefly before going off the air. Some believed however that the tones printed in morse on a special tape which was dusted with powder to reveal the messages. Others believed that the light box had a replay facility to light up the numbers again as it appeared to some that the tones were transmitted too quickly to be written down. Opinion was divided. But all (or most) was to be revealed during the case of Hugh Hambleton.

Hugh Hambleton was a Canadian professor who had worked for NATO whilst working for the KGB, he was jailed in London in 1982. Hambleton was one of the first agents to be equipped with a device which went onto be known as the Hambleton tone decoder (or luminaire).

The luminaire was shown to Hambleton during training in a flat in Moscow in 1977 but due to its sensitivity it was not possible to get it to him through a dead letter box. Instead it was delivered by a live drop in Canada. A man drew up beside Hambleton's car at the appropriate time and place and passed a car battery to him. Hambleton took it home and after removing the battery case found the device. The luminaire or light box was grey, 9 inches long, 6 inches wide and 2 inches deep. After attaching the equipment to a short wave receiver he was ready to tune to the transmission, as the tones were received each number behind a glass front was illuminated and he was able to write down the numbers in blocks of 5 for decoding using a one-time pad or gamma pad as the RIS calls them.

A government witness at his trial from GCHO called Mr A said that the luminaire was made in Russia and nothing like it existed in the West.
The luminaire was only issued to highly prized agents who would not or could not learn morse or their living conditions made its reception unwise. They would be issued with a luminaire and it could receive messages in bad conditions regardless of static, it was also more secure as it was silent, the tones were fed through a connector in the ear socket and the agent could listen via another earpiece. The drawback to the equipment was that its presence screamed espionage and was sufficient to condemn. as it did in Hambleton's case.

A photograph of a luminaire can be found in the book "The Intelligence War" by Colonel William Kennedy. I regret we are unable to reproduce it due to copyright.
Our special thanks to $D$ for his help with this feature.

# ENIGMA BOOK REVIEW 

## BY WAY OF DECEPTION - VICTOR OSTROVSKY \& CLAIR HOY

## St. Martins Press - 1990

Subtitiled "The making and unmasking of a MOSSAD Officer". This book tells the inside story of the Israeli secret service - An organisation reputed to be the most secretive in the world.

Expecting this.to be the usual heavy mix of political intrigue and indigestible government details, I was pleasantly surprised to find the book written in a light anecdotal style, which was highly readable.

The book is divided into three sections, with sections one and two relating to the author's training at the Prime Minister's Supper Residence just outside Tel Aviv, which is in reality the Midrasha - the MOSSAD Training Academy. In these two sections you are taken through the classroom studies, out onto the streets for practical tests and to special training areas where firearms and hostage rescue skills are taught. Throughout the book, the author explains how he became increasingly disillusioned with the "Twisted ideals and self-centred pragmatism" he encountered, and leaves you in no doubt as to the ruthessness of the MOSSAD.

Section three takes a look at past political events in the Middle East and explains how the MOSSAD was influential in changing the outcome of these situations. A look at some of the Chapter titles "Carlos", Exocet", Helping Arafat", gives some idea of what to expect, and although much of the politics went way over my head, the stories are fascinating and well told. I particularly liked "Operation Moses", the story of a tourist resort, 75 miles north of Port Sudan, set up in 1984 as a MOSSAD front to rescue and evacuate thousands of black Jews from the war and drought in Ethiopia.

At the end of the book are a series of appendices - a strange collection of documents including a layout of the MOSSAD Academy, the author's MOSSAD Pay slip (a printed reconstruction - not a photograph of facsimile!), and an AMAN Questionnaire on Syrian Military Preparedness.

There are two references to the use of radio by the MOSSAD which occupy only a few lines in the book. One refers to the use of a computerised non-stop station broadcasting five letter groups, while the other mentions the use of burst communications for agents sending messages back to the MOSSAD. One interesting claim made by the author, concerns the size of the MOSSAD organisation. He claims that only 30 to 35 Case Officers were employed world-wide, (as compared to the KGB's equivalent at the time of some 15,000 ), which conflicts with the accepted view of the MOSSAD as being a very large organisation.

This brings me to my final point. The book offers \& fascinating insight into the life of a secret service employee. A candid expose of everything you would expect from such a lifestyle - but it struck me as being just a little too good to be true. Enjoy the book and revel in the story telling. But remember, in this shadowy world of deceit and disinformation, nothing is EVER as it appears to be $\qquad$

## PRESS RELEASE

## TURNING UP THE HEAT - M15 AFTER THE COLD WAR

By Larry O'Hara<br>Published by Phoenix Press<br>Price £S (+ \&1 P\&PP) ISBN 0948984295

Through diligent investigative research of recent events and critical analysis of the Secret State's media throughput, the author exposes for the first time MIS's attempts to secure a post-cold war role by turning up the heat in domestic 'extra-parlimentary' politics. Turning up the Heat raises some disturbing questions about M15's recent operations:

* Does recent targeting of UDA supporters in England and Scotland indicate MI5's intention to instigate a possible UDA mainland campaign in the future with its agents, as has happened in Northern Ireland in the Brian Nelson case, should the ceasefire not hold?
* Is MI5 attempting to 'forge links' between Northern Irish loyalists and English fascists to this end?
*Why were two English IRA recruits - one of them well known to Special Branch and M15 as an anti-fascist - apparently 'allowed' to plant bombs on trains after being filmed on video planting a bomb outside Harrods? Do these cases - and similar targeting of Animal Rights activists, Scottish/Welsh republican's - indicate a widening of MIS's range of targets?
* Harold Covington, a leading U.S. Nazi, was involved in the setting up of Combat-18 in Britain. It is revealed here for the first time that he may be an FBI asset. If so this raises disturbing questions about FBI collusion with M15. Are M15 seeking to introduce a UK equivalent to the FBTs COINTELPRO operation into British politics?
* Does the alarming increase in racial attacks and fascist intimidation of the Left in Leeds have anything to do with MI5's attempts to muscie in on regional police work (including that of Special Branch)? If secret state infiltration of both fascists and anti-fascists is as widespread as evidence suggests, could Leeds be MI5's test-ground for political intoxication - as practised by the French in Algeria and later by the Italian secret state?
* Are M15 trying to turn C18 into a 'pseudo-gang' controlled directly by their agents? Are they trying to 'take out' the origioal leadership with victimisation, selective arrests and entrapments in preparation for this?
* As O'Hara 'outs' yet another fascist/state-connected agent provocateur in the Green movement, can we expect more operations against eco-activists when the Criminal Justice Bill comes into force?

Larry O'Hara is a frequent contributor Lobster magazine and is author of Al Lie foo Far and At War with the Truth [Whitby: Mina Productions, 1993].
For further enquiries xing Voicemail 0891-669900, dial 10189 after prompt and leave your details. Altematively write to Larry O'Hara, BM 4769, London, WCIN 3XX

Distribution: Send if6 cheque payable to Larry O"Hara at the address above

## THE CZECH STATIONS - Part Two

Before we begin, a couple of corrections are in order. In the previous article the reference to 513 being the only vaice station operating in the 1970 :s should read 53. In the following paragraph the reference to 58 should read si0, and similarly, three paragraphs later. Anyone reading that article carefully would have noticed those errors -- they were entirely my (M.G.) fault, and $I$ apologise for any confusion they may have caused.

Continuing our tour of the Czech Numbers World brings us ta perhaps the most well-known of all the Numbers stations, $0 L X$ (Mb/S16). This began its life as 515 - Simon Mason's "Rapid Dots"; it also had a Morse version, M6A, which was often reported by the Americans on $7413 k H z$, probably because this freq. was used by U.S. pirates.

These earlier versions of OLX were last reported in 1991, after which the present versions began. The are are several important differences between Langley Pierce's and Simon Mason's reporting of 515, which have not yet been resolved.
L.P. : Begins on hour or h+30, very regular. Sends VVV VVV DE OLX in morse for 5 mins. before, Sends 3 f ID for 5 mins if a null message this ends after 2 mins.), $5 f$ single groups followed by "Papaqui." (L.P. claims this is Czech for repeat: the word may have sounded like that, but it is not a czech spelling, nor does it mean 'repeat') $5 f$ msg repeated, ends "Konec". Station ended 1989. Regular schedules gradually resumed, including a morse version in 1990. (this definitely refers to our present OLX)
S.M.: Begins at any 5 min. interval (correct), sends rapid dots for 5 mins. prior to ID, sends $3 f$ ID for 5 mins, $5 f$ single groups follow group count. Ended December 1990.

Although aware of this station in the 1980's, if was impossible not to be!) I now regret not having kept logs, as the above contradictions would have been easier to untangle! I suspect that L.P. has become confused, and that the callsign OLX only appeared when the new network started operating. (I'm sure I'd have noticed OLX if it was around in the $80^{\circ} 5$ )

515 did appear at any 5 min . interval within the hour, and used a regular set of callsigns, in the same way that OLX does now, however, 515 also included callsigns which acted as null message indicators. These all included a zero as one of the three figures; no message followed these calls, the transmission abruptly ending. As soon as the agent/illegal heard such a call helshe would listen no further. The recipient would not have to "endure 5 minutes of mind-numbing 'dva tri osm' ad nauseum; only to be rewarded by a sudden departure" as S.M. states. Actually, in that particular casey, the ID 238 would indicate a message was to follow. ID's such as 089 or 100 would be signs to switch off.

As in the present OLX, ID's don't refer to actual individual agents - they are Schedule Numbers sent at a particular time on a particular. freq. For example, 729 schedule operated at 2045 (on a particular day of the week?) on 3380 kHz , if this was to change to, say, 707, no message would follow. Null message indicators were not random $3 f$ numbers including a zero, and probably had an extra significance to the user of any particular schedule. They included:- 052061069082095 092109201204205208507 707. Valid ID's included:- . 158 185242269272288 (still used) 311627729424.

The lesser-knowri MGA probably operated in a similar way. Rapid dots (were these actually the rapid dashes as sent by M7 \& M10?) were sent for 5 mins. followed by a 3 f ID sent six times, then $=011011$ (just as today except that the dots have been replaced by VVV UVV DE OLX.) The call lasted between 3 \& 12 mins. according to L.P. As with OLX, Sf groups follow the group count, and were probably repeated in the same way. Like OLX, it ended with $=$ and $I D$ sent 3 times. This station also uséd null message indicatorsg. 023031043 etc. and $1 D^{\circ}$ s such as $255334388 \quad 399454538.753$ 855. The 011. 011 was occasionaily replaced by 001 or 086 . OLX today invariabiy sends 011. Its purpose is unknown and it only applies to the Morse transmissions, and is now possibly no more than e legacy from yhe past. Group counts have remained similar over the years, rarely less than 50.

Freqs. used by the earlier network:- $3228 \quad 32383380 \quad 34573460$ $40654104 \quad 416045604790 \quad 4913 \quad 5270 \quad 5450 \quad 5770 \quad 57756780 \quad 7413$ 81597350 10180. Indicates a European operation. OLX, however, is a worldwide operation; it not only replaced the earlier network, but serves a different purpose. Around 1991 MIG set up a Central European office in Prague. OLX uses a completely new set of freas (except 5775):- 328046015301 $5775 \quad 62826758 \quad 8142 \quad 932011002 \quad 12275 \quad 1497718303$ and uses three in parallel. Forty regular $3 f$ schedule numbers are used on a weekly basis - 161 time slots per week. (S15/mba probably used more complex interlocking schedule) OLX sends so many messages that not all can be valid. Agents will be allocated particular schedules as and when required, meanwhile all schedules remain in constant operation, regardless of whether they are actually in use or not. The agent has no clue in the preamble as to whether the forthcoming message is valid or not.

In the final article we will turn to the so-called control Stations, S17\& S19, and the Czech Man in his non-Control role. Is the still around? We somatimes receive tantalisingly vague reports of a "rough slavic voice" on the lower frequencies. Could that be him? Without more detailed logging we'll never know. Please remember to record the format of unknowns as fully as possible. It is crucial to identification.

## LOOKING EAST

We had lots of interest after our feature in issue 8 - Looking East - so I hope this update will bring you even more food for thought. Our first port of call is Richard in Singapore who sent us some very interesting information.

Richard starts by telling ENIGMA that the unidentified log in our Far East section last time round ( $6400 @ 15.00$ UTC) is Pyongyang Broadcasting Station (V15). The language is Korean, and the 5 F groups are intended for compatriots (ie-agents) in the south. be they real or imaginary. PBS is also on MW \& FM locally.

On the subject of New Star Radio (V13). Richard tells us that he first heard it in 1990 when he began DXing. New Star Radio uses several frequencies: 8300 (NS stn 4), 9725 (NS stn 3)
11430 (NS stn 1) 13750 (NS stn 5) and 15388 (NS stn 2). Most stations broadcast on the hour or half hour. 8300 does however have a less regular schedule. Contrary to what Jerod Pore wrote, I had never heard a physical location mentioned in their broadcasts although it's rather obvious that they are from Taiwan, judging by accent.

Up until very recently all broadcasts were done manually, recently however. some broadcasts have become "computerised" with the "numbers" section being inserted by computer. One wonders why this investment is necessary if the whole operation is carried out in order to confuse mainland China.

The following is a direct translation of the 'live' part of the station announcement on June 19th at 09.00 UTC on 11430. Al1 other channels except 8300 were also on air but not in parallel. Music (as yet unidentified) " This is New Star Broadcasting Station One" (said twice). "in this time. for unit 4835, the month of June, three telegrams, nuriber 89 , and 10, total of 63 characters ( $=$ words), unit 4835. please take note" (said twice) more music.
"this is New Star Broadcasting Station 1" (said twice)" We are going to read telegrams to you. Please take note, prepare to copy "(unit \# and telegram again repeated). This whole sentence repeated 3 times.

A series of 4 F groups follow. Occasionally (although rare) it is a 5 F group. If there are +20 groups. a short announcement is made after every 20 are completed to the effect that the said number of characters have been read. If there is a message for - more than 1 unit, the annoucenment would repeat the whole formality with the 2nd unit after she is through with the first one. After she completes a message she says ".
"The above is for unit 4835, June telegrams. numbers 8 of 19 characters is now completed ". If all messages are finished, she says "The above special communication is completed, thanks for listening, wishing you health and happiness - Goodbye".
I have never hear a message relayed from one unit to another, Jerod is correct in saying that Chinese telegrams consist of $4 F$ groups with each representing a character. I have tried to decode some of the messages with the Chinese telegram manual I own, but needless to say, the results do not make any sense !

On two occassions. I have actually heard verbal messages. "Unit XXXX, it is some time since we last received a letter from you. Last time you said you had made a new friend. How is the situation now? Please stay in original place and continue your work. Wishing you peace and success, Goodbye". the message was read twice. On another occasion, the lady announced after the conclusion of the messages " Now, please listen to a selection of music". For the next half hour. some Taiwanese pop music ( with no words) was heard.

The poor reception ( 22.15 UTC) of 8300 in SE Asia does seem to suggest that this transmission is directed elsewhere, especially when Voice of Asia is loud and clear in the 7 mHz band.

Richard has also sent us his observations on other Far East stations mentioned in ENIGMA and some that are not.
"You also mentioned other transmissions in Far East languages. So far, I am unsuccessful in hearing some of these despite my location in Singapore. While checking out the frequency 5738 at 12.00 UTC I did hear something unexplained. For 5 minutes, a lady repeated in Mandarin 'I am Zhuhai' before saying 'No Goodbye' I have heard something similar on March 10th this year at 00.00 UTC and 06.45 UTC on 15974 USB. 'Zhuhai' can refer to a place in Guandang opposite Macau, but 2 years earlier I heard a similar broadcast on 15940 AM, with the message ' I am cuckoo bird ! Zhuhai' therefore can also mean
'pigs rear feet' (!)

Messages of this kind are rather occasional so catching them is a hit or miss affair. The accent of the announcer again suggests Taiwan origin.

While flipping through my log. I also noticed an entry I made of 'Zhuhai' on 1st January 1995 at 23.37 UTC on 13824 USB. and again the next day 04.05 to 04.07 UTC. Pips follow after 'Goodbye' so perhaps this is utility of some sort.

You may also be interested to know that some transport companies in Taiwan employ SW - AM broadcasts consisting of numbers to deploy their vehicles. Taxi companies are especially prevalent in and around the 11 meter band, although they are heard less frequently these days. I also suspect that cab companies in Indonesia are employing something similar. Companies involved in the distribution of consumer goods in Indonesia also employ numbers sent over short wave to check quantities of orders and stock. Remember. Indonesia is a huge archipelogo. so the use of SW radio in commerce is actually logical. as computers have yet to spread to the many islands.
"Finally I have also heard what appears to be a Vietnamese numbers station on 21st May at 10.30 UTC on 13990 USB. A man was reading out 5 F groups, no repeat, a 'click' was heard after every group. The message went on for 3 minutes. some conversation with another party and another message followed".

Risto in Finland also sends further confirmation about the transmissions at 15.00 on 6400 kHz . Risto says this is definitely Pyongyang. If you listen to this frequency at 15.30 or 16.00 UTC you will hear those colourful propaganda programmes. The Korean language is easily recognised by the word innida at the end of every sentence. The numbers transmission was heard last year between 13.00 and 14.00 around the 49 mb . but never twice on the same frequency.

Readers may be interested (not directly numbers related) to know - that the clandestine Voice of National Salvation (which broadcasts from North Korea to the South) has had its location traced. During a recent visit to North Korea, a member of the Asian Broadcasting Institute was able to confirm the location of one of the transmitters used. According to an investigation by the South Korean authorities, this clandestine station has transmitters in Pyongyang, Haeju and Wonsan. Of these three locations, the Japanese DXer was able to confirm the presence of the Wonsan transmitter, which is on a hill in Wonsan City. This transmitter is used on 3840 kHz . ( R Japan 21 May \& BDXC Communication July).
Risto also tells us about a Chinese lady he heard last year at 20.00 UTC on 5846 calling Golf Mike Mo-Sa. Later, she repeated what were probably three Chinese numbers. She even said goodbye at the end of the transmission which lasted about 5 minutes. she has not been heard recently : zai jian.

## LATE NEWS

Just before going to print. Richard in Singapore sends in further information concerning a daily transmission at 14.00 UTC on 5873 kHz variable.

The transmission starts with 2 minute long interval signal same as the one used by Radio Pyongyang. After that are 4 minutes of martial music. The lady then begins to read a series of messages for different units. The lady's voice as well as the messge format (5F groups) is similar to the one heard at 15.00 UTC daily on 6398 kHz UTC from PBS.

On 5873 kHz , the whole transmission lasts about 15 minutes. signing off with another piece of martial music. The modulation of the transmitter is less than satisfactory, and is characteristic of radio transmitters based in North Korea. The language used in the this transmission is Korean.
Thanks for all contributions to Looking East. We would welcome any further logs, news and observations concerning transmissions from this area of the world.

## HELP PAGE!

Welcome along to our "Prilp Page". I would like to start by thanking all the readers who returned copies of the Questionnaire which was sent out to those members who were due to renew subscriptions. Further guestionnaires mill be sent with this issue, you will receive one if wovr subscription is now due.
Thanks for all your subseription funds, extra money which we received mill be used to subsidise readers who find it difficult to send in. funds.
The mext issue of ReIGMA (10) will carry the results of our reader survey, also we shall be carrying out a review of the prostoss we have sade up to our temth issure - as a result of this the next ENIGMA Nersletter will be publishod in late March 1996 - this will allow us a little extra tine to puli everything together.

1) Several readers were puzzled by the list of names which appowred at the bottow of our help page, let ne explain a littlo more.

The Laughing Cavalier mas the lotter-ariting name of hr Peter Quintel, he sent in lous to Shovt wave Hackeine for lany yeurs - and reas a dedicuted Humbers station monitor, although we have had reports that Peter died in Aprill 1983 - did you know hin or perhaps were in contact rith hile ?
Langley Pierce, author of the book "Intercepting Nubbers Stations" although we mrote to Laneley ho did not respond, in-fact he seems wery elusive and is not (to our knowledge) a member of zWIGMA - which seems odd : - One FWIGHA member called at Interproducts meiling address in Perth, Scotland, (many other wetivities 80 on at this address) but Mr Pierce was not there I Another सHIGMA reader hrote to $\begin{aligned} \text { rr Pierce about }\end{aligned}$ a month aso, but has not pet received areply. Our reader coments, "maybe he is on holiday or perhaps he is a bit - or- shy".

GH Herrick was the joker card in the pack - but may have something in comron with the others. Harold in Southampton spottod this one and Wrote "G Herrich is a mithical person to whom all officiml letters are adressed when witing to NIE, see "The Intelligence Gate" by Jrenes Rusbridger pase $18{ }^{\circ}$. Spot on, Harold.
2) Transwission sites. Thank you to those readers who sent in information concerming sites. Please continue to send this to us (anonymous information miways appreciated) - Due to themount of information we hold on this subject, we saving this feature over untill next time.

D）Radio North Soa Intornational．Wo are still Koon to haar from anyone who may hawe had connections mith this station；can you help？ My thanhs to Andy Cadier at Short Wave Masazine，who printed the following information in his＂Orf The Record Pase＂（October issue）
＂Spy Ship＂．The numbers station group BNIGMA，in a recent newsletter are seeking information on an alleged mutbers station that they say wris located aboard the pirate radio vesswl MBBO II．Radio Morth Sea Int
 $2 \times 10$ 点留 5 留 and an anemeur radio transceiver．

Bditors note ：Other transwitters included 10 W M Min， 650 MHz UHP link，－the usual maritiae WHP，HF／HF／LP equipment，HP RTYY Iink to Genera．

The amteur transceiver yas rum by the station ensincers and for vary obvious reasoms used a false Panamanian maritie nobilo callsimn．

The sccusations relating to suspected espicnase activities surfaced in 1971 Followine a dispute with a rival station called Redio Feronica． On the 21st September $19 \% 1$ five people，including a Radio Veronica director，Were sentenced to ono year imprisiomment for comducting u fire bow whisce on the badly damesed broadeastins continued while repairs nere carried out．
kill eventually closed dokn on 30 th August 1974 but the ship－tws detalined in holland until being sold to liby in 1977．Thanks Andy．
（More on Mr in issue 10）．

4）Several readers have asked about the lagal pasition of listeninef to number stations？others with amatenr licences are worried about keeping number logs．While scanning seere to be in the listeming spot lisht at present－what are your wiews on Iistening to mubbers？

Just a couple of interesting bits pieces；in issue 8 weriened the book＂Fhe Underground Prequency Gurde＂by Don Schinkel．Mine in Bath tells he has heard frow Harry Helas at Hish Yext Publications；the book is arailable in the Uh E Europe through the following address．

Gamile Book Serwice Ltd，pialcoln House，Muecns Square，Lancaster，


Haryy says that he does not know the UR price．
Sinom Heson tolls we he has been in toach bith Irdikl－Discs，who are ready to launch the $C D$ of Wumber StMflons．They are norkint on tapes received from listeners im the Par Rast at present，but the CD should be out soon．We will keep you posted．

Phank you to all our readers who have taken tiae to drop as line， nay we take this opportunity to wish you all a very peacepul and happy fet Pear for 1996．And please koep in touch．

# The Russian Man and Family - An Update 

## Mike Chace (mikec@praxis.co.uk)

Back in ENIGMA Issue 6, I wrote an article detailing the characteristics of this interesting and very active family of numbers stations. The main members of the clan, the Russian and English Men (S5, S6, E6 and E7) and the Morse M12 and M14/24 stations continue at their usual level of activity but over the past months there have been some new additions to the family and some more indications of the stations' schedules have been ascertained.

## Meet the Familly

At the time of writing my original article I knew that the family consisted of the Russian Men, English Men and German Ladies in voice, and M12 and M14/24 in Morse. Since that time, we have new arrivals in the form of the Spanish Man (V7) and Spanish Lady (Vo) and an English Lady (E17a) has also been heard, but only on one occasion.

A German Man (G19) has been known to have been operational a few years ago (see Simon Mason's "Euronumbers Mystery" book) but has not been heard by me since I first began to concentrate on these stations.

The English Lady was heard only once in an interesting transmission on 13875 kHz on Saturday, 3rd June, 1995. This transmission began at 1230UTC with the English Lady calling in the normal family manner for agent 647 . On completion of the message, the English Man (EO) immediately began to call for the same agent, but with a new style of voice sythesiser. Sadly, neither this new male voice nor the fernale variant have been heard by me since that day.

Both the Spanish language variants have low levels of activity which perhaps indicate that this network does not have many agents using this language. The pronunciation of numbers in both cases is standard Castillian Spanish.

## Regular Transmissions

At the time of writing, I know of only three remaining regular schedules. One is kept by a Russian Man, one by an English Man, and the other by a German Lady. Here they are:

| Language | Day | Time (UTC) | Frequency | Agent |
| :---: | :---: | :---: | :---: | :---: |
| Russian (S25) | Daily | 0800 | 14890 kHz | 615 |
| Russian (S25) | Daily | 0820 | 11270kHz | 615 |
| English (EO) | Monday ${ }^{1}$ | 1910 | 10162 kHzz | 947 |
| English (EO) | Monday | 2010 | 8074 kHz | 947 |
| German (G7) | Tuesday ${ }^{2}$ | 0630 | 7378 kHz | 278 |
| German (G7) | Safurday | $0900^{3}$ | 112027kz | 621-1 |

As noted in the previous article, agent 947 rarely receives traffic but continues to be called-up each week. When messages do appear, they are usually very long the record still standing at a marathon 401 groups - which also applies to the German Lady"s transmission to "278".

Despite over 600 individual loggings of the family over four years, I have still to determine a schedule for any of its members. This appears to support the assertion made by Langley Pierce in his book "Intercepting Numbers Stations" which told a similar story of a suspected, very long and complex but as yet undetermined schedule. What I can tell from my logs is that:

- transmissions to the same agent often appear on the same day, at the same time and on the same frequency year after year,
- many transmissions appear on the same frequency, at the same time on one day per week lasting for one month. Again, this monthly pattern is often repeated a year later.

[^0]As regards these findings, it is the day of the transmission rather than the date, that is important in determining its appearance next year. For example the third Saturday in June, regardless of the date that that day occurs on.

## More on the "Control" Transmission (S25)

In my previous article on this family, I had christened the daily Russian Man messages on 14890 and 11270 kHz as the control transmission because of their similarity to the Counting Station's transmissions of the same name.

To recap, the normal mode of transmission sees $615,615,615$ followed by a single 5 F group, sent twice on 14890 kHz . All this is sent for a period of 10 minutes. This scheme is repeated for the next ten minutes but a different 5 F group is sent. The transmitter is then moved to 11270 kHz where the process is repeated, again with two different 5 F groups. The normal end-of-message signal of five zeros is only sent on the lower frequency. These transmissions continue unbroken today.

I have carried out some analysis on the 5F groups sent, and this is what transpires:

- the four 5F groups sent always start with the same digit and end with the same digit, for example 95115,92675 on 14890 kHz and 97635,90035 on 11270 kHz ;
- the start and end digits for any 5F group come from only a certain number of pairs. These are:

| $0 \times x \times 2$ | $0 x x \times 8$ | $2 \times x \times 9$ | $4 x \times x 7$ | $6 x x \times 1$ | $6 \times x \times 6$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $7 \times x \times 3$ | $7 \times x \times 4$ | $8 \times x \times 0$ | $8 \times x \times 3$ | $9 x \times x 5$ |  |

As to exactly what this denotes, I'm not sure. Perhaps a certain start and end digit indicates a certain class of message, the meaning of which is conveyed by the middle three digits?

- counting the number of calendar days between the appearance of a certain start and end digit combination reveals some sort of pattern. For example, I counted the number of days between each appearance of the $9 \times x \times 5$ groups, in nearly all cases, the intervals were divisible by a multiple of 4 . However, this finding is not $100 \%$ consistent amongst all startend combinations.

I calculate that a good three months of everyday listening to the control transmission may well reveal more information but due to present commitments, I'm unable to take up the challenge myself. Of course, I'd love to hear from anyone else if they would like to have a go!

As noted in my previous article on these stations, the control transmission has a further two modes of traffic. Rarely, it will send either a normal (Format 1) message or a strange hybrid format containing the groups 11111, 22222 and 33333 interspersed between normal "random" 5F groups. This latter type of transmission will often continue for hours without end, the record standing at over 4 hours. Many listeners have reported that this form of transmission has been on the increase of late, in fact since the troubles in Bosnia have intensified.

More details on this transmission in the next issue of ENIGMA.

## New Clues, Coincidences, and Odd Behaviour?

A few days before I began to write this update, I copied an English Man (ET) transmission on 7779 kHz at 2000 UTC directed at agent 184-1. Having previously swept the bands for the station's tell-tale AM carrier, I went back through the memory channels that I had stored as a result. One carrier was still strong, and as expected, at 2010 , the English Man started on 10868 kHiz to agent 184. Nothing unusual so far, but as I copied the first groups of the message down, this is what I found: 21086, 82647, 77779, 23049. Notice that if you knock the " 2 " of the first group off and continue to the first digit of the second group, you get 10868 - the frequency currently in use. Even more curious, if you look carefully, the last frequency heard also occurs in the group 77779. The message caught my attention in any case, as it was short and had rather too many double-digits eg 44556, 33244 etc, but I had never seen frequencies mixed in with the "text". Just coincidence perhaps, but I'll be watching in future....

Also look out for English Man (ET) transmissions to the agent " 235 ". These messages always have a characteristic non-random format where the first three groups are repeated in mirror image at the end of the message. A recent example being: $00107,19200,19200$, ( 54 more random 5 F groups), 19200, 19200, 00107. Worth looking out for!

Meanwhile, I would be happy to provide others with a copy of my logs (on paper, disk or via e-mail). Your logs conceming the stations in this feature are, as always, very welcome. Until next time, 73 and good listening.


[^0]:    ${ }^{1}$ Repeated on Tuesdays and Wednesdays when a message is sent. Repeated only on Tuesday if no message is sent.
    ${ }^{2}$ March to October each year.
    ${ }^{3}$ This schedule appears to keep to UTC +1 , probably indicating a Central European target In other words, it appears at 0800 UTC during British Summertime (BST $=U T C+1$ ) but reverts to 0900 UTC when the UK moves back to GMT during the winter and spring.

